



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
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No. 38] NEW DELHI, SATURDAY, SEPTEMBER 19, 1992 (BHADRA 28, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2  
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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PATENTS AND DESIGNS

Calcutta, the 19th September 1992

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Calcutta-700 020.

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पेटेंट कार्यालय

एकत्र तथा अभिकल्प

कलकत्ता, दिनांक 19 सितम्बर 1992

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवधित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रावेशक क्षेत्राधिकार जोन के आधार पर निम्न व्यप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट,  
तीसरा तल, लोवर परले (पश्चिम),  
पम्बई-400013।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोआ, दमन तथा  
दिव एवं दादरा और नागर हवेली।

तार पता—“पेटेंटफसे”

पेटेंट कार्यालय शाखा,  
एक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
दिल्ली-110005।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिक्से”

पेटेंट कार्यालय शाखा,

61, बालाजाह रोड़,

स्ट्रीट-600002।

आधुनिक, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र फार्मेसी, लक्ष्मीपुर  
सिंहाश तथा असिंहिदिक्कि द्वीप।

तार पता—“पेटेंटफसे”

पेटेंट कार्यालय (प्रधान कार्यालय)

तिजाम पैलेस, दिवतीय बहुतलीय कार्यालय,  
भवन, 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड़,  
कलकत्ता-700020।

भारत का अवशेष क्षेत्र

तार पता—“पेटेंटसे”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपर्युक्त कार्यालय में ही प्राप्त किए जाएंगे।

शालक :—शालकों की उदायगी या तो नकद की जाएगी अथवा उपर्युक्त कार्यालय में नियंत्रक को भुगतान योग्य भनादेश अथवा डाक आदेश या जहां उपर्युक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित दैक से नियंत्रण को भुगतान योग्य वैक ड्राफ्ट अथवा दैक द्वारा की जा सकती है।

In the Gazette of India Part III, Sec. 2, dated the 22nd July 1989, (a) Page-693, Col. 2, for application for patent No. 105/Cal/86 filed 14th February, 1986 read the applicant as GEORG FISCHER AKTIENGESELLSCHAFT instead of GEORGE FISCHER AKTIENGESELLSCHAFT.

(b) In page—695 col. 1, for application for patent No. 202/Cal/86 filed on 14th March, 1986 delete the accepted complete specification No. 164996 from the first line.

In the Gazette of India, Part III, Sec. 2, dated the 15th July, 1989 page-666, col. 1, for application for patent No. 612/Cal/85 filed on 23rd August, 1985 read the applicant as BROWN BOVERI & CIE AG. instead of BROWN BOVERI & IE AG.

In the Gazette of India, Part III, Sec. 2, dated the 12th August, 1989 page-750, col. 1, for application for patent No. 780/Cal/85 filed on 4th November, 1985 read the applicant as E.I. Du Pont De Nemours & Co., instead of E.I. Du Pone De Nemours & Co.

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent branch are the dates claimed under section 135, of the patents Act, 1970.

In the Gazette of India Part-III, Sec. 2, dated the 1st July, 1989, page-636, Col-1, for application for patent No. 843/Cal/86 filed on 19th November, 1986, read its accepted No. as 164909 instead of 164908.

The 10th August 1992

568/Cal/92 Monoj Kumar Choudhury. "A process and apparatus for using lime sludge and for energy conservation in cement manufacture".

569/Cal/92 Trico-Folberth Limited. Windscreen wiper Blade Rubber. (Convention No. 91 17600.8 filed on 15-8-91 U.K.).

570/Cal/92 Scios Inc. & Pfizer Inc. Tissue-Selective insulin Analogs.

571/Cal/92 Satake Corporation. Method of and system for flour milling.

572/Cal/92 Hoechst Celanese Corporation. Method for producing P-hydroxy phynoyal glycenc. (Divided out of No. 138/Cal/92; antedated to 13-2-91).

573/Cal/92 Sico Incorporated. Folding stage system.

The 11th August 1992

574/Cal/92 Prasanta Sarkar & Joy Sinha. Improvements in Multi-filament Incandescent Electric Lamps.

575/Cal/92 Steelsworth Limited. Improvements in or relating to CTC Machines.

576/Cal/92 Doon Dooma India Ltd. Auto Overload Release system for CTC Machines.

577/Cal/92. Siemens Aktiengesellschaft. Process and plant for thermal Waste Treatment.

578/Cal/92. E.I. Du Pont De Nemours and Co. Aramid particles as wear Additives.

579/Cal/92. Siemens Aktiengesellschaft. Carbonisation Device.

580/Cal/92. Sico Incorporated. Interlocking Sections for portable floors and the like. (Divided out of No. 525/Cal/89; antedated to 05-07-1989).

581/Cal/92. Siemens Aktiengesellschaft. Carbonisation Device.

582/Cal/92. Siemens Aktiengesellschaft. Process and device for testing the leaching Resistance of a material.

583/Cal/92. Mitutoyo Corporation. Optical Encoder (Divided out of No. 118/Cal/89; antedated to 8-2-89).

12th August 1992

584/Cal/92. Vista Chemical Company. Process for Alkoxylation of Esters and products produced therefrom.

585/Cal/92. Satake Corporation. Brushless Induction Synchronous motor with two stators.

13th August 1992

586/Cal/92. E.I. Du Pont De Nemours & Company. Method for making strong discrete fibers.

587/Cal/92. Ramesh Kumar Agarwal. Improved Bobbin Thread replenishing mechanism.

588/Cal/92. TDK Corporation & Fumakilla Limited. Positive characteristic thermistor device.

14th August 1992

589/Cal/92. FIP Incorporated. Well head metal seal.

17th August 1992

590/Cal/92. Hoechst Aktiengesellschaft. Water-soluble monoazo compounds, a process for their preparation and their use as dyes.

591/Cal/92. Siemens Aktiengesellschaft. Head Exchanger.

592/Cal/92. Hoechst Aktiengesellschaft. Water-soluble azo compounds, processes for their preparation and their use as dyestuffs.

18th August 1992

593/Cal/92. Hoechst Aktiengesellschaft. Water-soluble disazo compounds, a process for their preparation and their use dyes.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, given notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

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## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बूद्ध आवेदनों में से किसी पर पेटेंट अन्वयन का विरोध करने के इच्छुक नोई व्यक्ति, इसके विर्गम की तिथि से 4 महीने या अधिक एसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से लंबिक न हो, के भीतर कभी भी तियंत्रक, एकस्व को एसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप हैं"।

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मुद्रित प्रतियाँ, भारत सरकार बूक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय होते यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का भल्य 2/- रु. है। (अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति होते मांग-पत्र के साथ निम्नलिखित सूची यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

हथाकर (चित्र आरबॉन) की फोटो प्रतियां दर्द कोई हैं, के साथ विनिदेशों की टंकित अथवा फोटो प्रतियों की आपूर्ति एटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर को जा सकती है। विनिदेश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिदेश के सामने वीचे वर्णित चित्र आरबॉन कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का दरिकलन किया जा सकता है।

Cl. 32 E.

171311

Int. Cl. 4: C 08 F 236/00.

## PROCESS OF PRODUCING A RUBBER-MODIFIED STYRENE COPOLYMER.

Applicant: MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU TOKYO, JAPAN.

Inventors: (1) MUNE IWAMOTO (CHEMIST), (2) NORIFUMI ITO, (CHEMIST), (3) KAZUO SUGAZAKI (CHEMIST) (4) TETSUYUKI MATSUBARA (CHEMIST), (5) TOSHIHIKO ANDO (CHEMIST), (6) YASUO FURUTA (CHEMIST).

Application No. 626/Cal/88 filed on July 28, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

15 Claims

A process for producing a rubber-modified styrene copolymer comprising the steps of

(a) continuously charging in a first reactor a solution of a butadiene-base rubbery polymer in a mixture of styrene-type monomer (ST) and acrylonitrile-type monomer (AN) and carrying out polymerization to an extent sufficient to convert the rubbery polymer into dispersed particles, and (b) continuously transferring to a second reactor the reaction mixture of the first reactor in an amount equivalent to the charge, and continuing polymerization in the second reactor to obtain the rubber-modified styrene copolymer, wherein:

(A) said butadiene-base rubbery polymer is obtained by anionic polymerization, has a viscosity of 2-350 centipoises as measured at 25°C in the form of a 5 wt.% styrene solution and contains less than 0.1 wt.% of styrene insoluble component;

(B) said rubber-modified styrene polymer consists of 5-35% of the butadiene-base rubbery polymer and 95-65 wt.% of a copolymer (SA copolymer) of ST with AN, the ratio of ST to AN (ST/AN) being in the range of 90/10-55/45 by weight;

(C) said rubbery polymer is dispersed as particles in a continuous of SA copolymer and part of the SA copolymer concluded end/or grafted in the form of cells in the dispersed rubbery polymer particles;

(D) in an ultrathin slice electron micrograph of ultrathin section of said anionically-copolymerized-rubber-modified styrene copolymer, the percentage of the areas of rubber particles (R2) in each of which the maximum cell diameter is smaller than 0.1  $\mu\text{m}$  is at least 40% when the area of all the rubber particles is assumed to be 100%.

(E) in the electron micrograph of ultrathin section, the volume average particle size of the rubber particles of R2 is 0.1-0.4  $\mu\text{m}$ ; and

(F) per 100 parts by weight of the SA copolymer up the continuous phase, the proportion of polymers having a molecular weight greater than 1,000,000 is smaller than 0.5 part by weight and the proportion of polymers having a molecular greater than 1,200,000 is smaller than 0.01 part by weight.

Compl. Specn. 48 pages.

Drgns. 1 sheet

Cl. 55 A+ 189+ 152E+F.

171312

Int. Cl. 4: A 61 F 13/00+A 61 K 7/32.

+B 29 B 15/10, +B 29D 7/01.

## METHOD OF MAKING A FLEXIBLE DEODORANT SUBSTRATE IN THE FORM OF A NON-WOVEN WEB, A PAPER TISSUE OR A WATER IN SENSITIVE FILM.

Applicant: PERSONAL PRODUCTS COMPANY OF VAN LIEW AVENUE, MILLTOWN, NEW JERSEY 08850 UNITED STATES OF AMERICA.

Inventors: SHMUEL DABI.

Application No. 699/Cal/88 filed on August 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

3 Claims

A method of making a flexible deodorant substrate in the form of a non-woven web, a paper tissue or a water insensitive film, for use in sanitary napkins to absorb body fluid, comprising in coating as herein described said substrate with hydrophilic, water insoluble, water swellable polymeric film containing a powdered deodorant immobilized in a dust-free manner in said polymeric film by applying a dispersion of the powdered deodorant in an aqueous solution of a water-soluble film forming polymer onto the said substrate and then cross-linking the polymer such as herein described using known cross-linking techniques in situ so as to form said water swellable, water insoluble polymeric film on said substrate.

Compl. Specn. 13 pages.

Drgns. Nil

Cl. 145 C.

171313

Int. Cl. D 21 H 5/16.

## WRAPPER FOR SMOKING ARTICLES SUCH AS CIGARETTES CIGARS AND SMOKING ARTICLES COMPRISING SAME.

Applicant: P.H. GLATFELTER COMPANY OF 228 SOUTH MAIN STREET, SPRING GROVE, PENNSYLVANIA 17362, UNITED STATES OF AMERICA.

Inventors: (1) CLIFFORD MARK KAUFMAN, (2) RICHARD HUGO MARTIN.

Application No. 701/Cal/1988 filed on August 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

13 Claims

A wrapper for smoking article such as cigarettes, cigars and the like comprising a cellulosic fiber sheet containing, as filler, freshly precipitated magnesium hydroxide filler optionally together with a particulate co-filler such as herein described.

Compl. Specn. 19 pages.

Drgns. Nil

Cl. 108 C 3.

171314

Int. Cl. C 21 C 5/00.

## "PROCESS FOR PRODUCING STEEL FROM SOLID METALLIC IRON CARRIERS"

Applicant: VOEST-ALPINE STAHL DONAWITZ GESELLSCHAFT M.B.H. OF A-8700 LEOBEN-DONAWITZ, P.O. BOX 1, AUSTRIA.

Inventors : (1) LUDWIG, VON BOGDANDY (2) GERHARD MITTER, (3) OTTO KOLLER, (4) LUZIAN POCHMARSKI, (5) CHRISTIAN JAQUEMAR, (6) HANS-UURGEN LANGHAMMER.

Application No. 800/Cal/88 filed on September 26, 1988.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

9 Claims.

A process for producing steel from solid metallic iron carriers such as herein described having been substantially preduced in a known manner per se, the process comprising melting the said carriers and pouring the melt into a ladle form performing subsequent metallurgical steps, characterized in that the metallurgical slag is, by adding fluxes, adjusted to

20—77.2% FeO, in particular 25.7—50% FeO  
10—30% SiO<sub>2</sub>  
2—15% Al<sub>2</sub>O<sub>3</sub>  
5—20% MgO  
0.13—6.45% MnO, in particular 0.5—5% MnO  
1—10% CaO  
1—5% Cr<sub>2</sub>O<sub>3</sub>  
P+S traces

Compl. Specn. 12 Pages

Drgns. Nil

Cl. 9 C

171315

Int. Cl. C 22 C 1/00, 9/00.

#### "METHOD FOR MANUFACTURING MELT MATERIALS"

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : (1) THOMAS MOSER, (2) JOACHIM GROSSE, (3) DR. HORST KIPPENBERG, (4) RUDIGER HESS, (5) DR. REINER MUELLER, (6) NORBERT PROELESS.

Application No. 874/Cal/88 filed on October 24, 1988

Appropriate Office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

22 Claims

A method for manufacturing melt materials of copper, chromium and at least one readily evaporable component which comprises :

(a) melting a fusible electrode of copper, chromium and said readily evaporable component with an electrical arc to produce melted material, and

(b) cooling said melted material with a water-cooled chilling means to prevent macroscopic separation of copper and chromium, wherein

(c) said fusible electrode comprises at least in part a solid alloy of copper with said readily evaporable component and concentration of said readily evaporable component in said alloy is higher than in the resultant composition of said melt material, whereby

(d) during the arc melting process said readily evaporable component remains bound in said melt material during the melting process.

Compl. Specn. 14 pages.

Drgns. 1 sheet

Cl. 69 D

171316

Int. Cl. H 01 H 9/30, 33/66.

#### "VACUUM-TYPE CIRCUIT INTERRUPTER"

Applicant : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

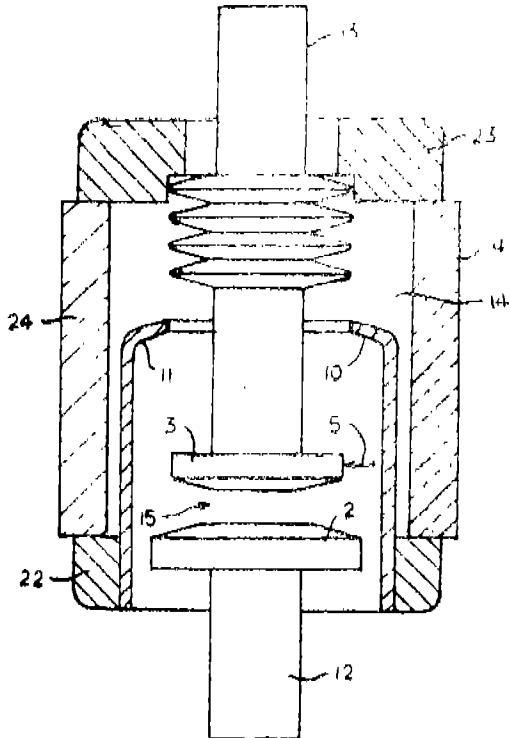
Inventor : ROY EDWARD VOSHALL.

Application No. 35/Cal/89 filed on January 12, 1989.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

5 Claims

A vacuum circuit interrupter comprising an insulated cylindrical evacuated housing, a stationary electrode in said housing a movable electrode in said housing adapted to engage said stationary electrode so as to provide an arc on separation, an arc shield surrounding the stationary electrode and electrically connected thereto extending toward the movable electrode to provide a predetermined spacing between the arc shield and the movable electrode, and in which the movable electrode is of a smaller dimension with respect to the stationary electrode so as to form asymmetric shaped electrode structures, whereby to provide the predetermined spacing between the arc shield and the movable electrode.



Compl. Specn. 8 Pages Drgns. 1 Sheets.

Cl. 131 B 2

171317

Int. Cl. E 21 B 1/00, 6/00, 17/00.

#### "A DRILLING APPARATUS"

Applicant : RUDOLF HAUSHERR & SOHNE GMBH & CO. KG. OF WUPPERTALER STRASSE, 4322 SPROCKHOVEL 1, WEST GERMANY.

Inventors : (1) HEINRICH-RUDOLF HAUSHERR (DIPL.-BERGING.), (2) FRIEDHELM ECKEY (DIPL.-ING.).

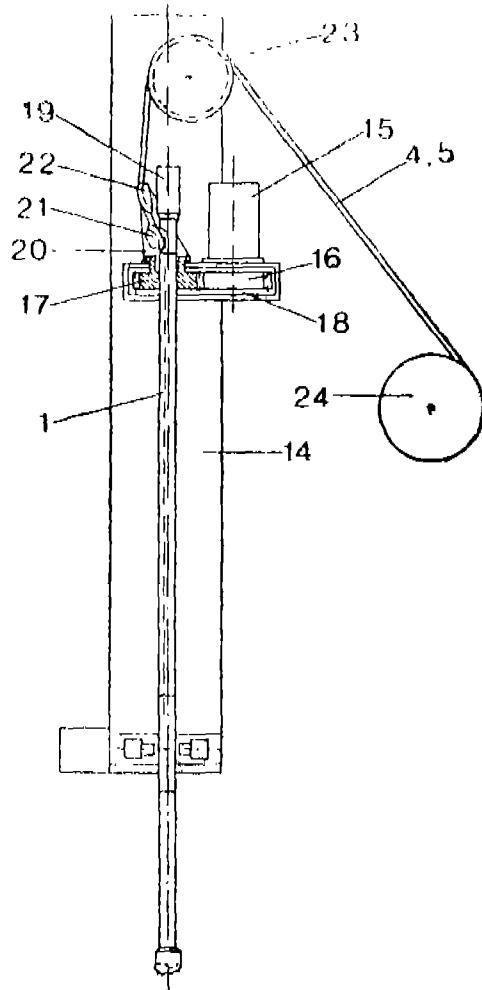
Application No. 209/Cal/1989 filed on March 15, 1989.

Appropriate Office for opposition proceedings (Rule 4, Patent rule 1972) Patent Office, Calcutta.

8 Claims

21 Claims

A drilling apparatus comprising;  
a carriage;  
at least one drilling rod having front and rear ends;  
a pressure-operated drive system for transmitting a back and forth drive movement to said drilling rod, said pressure-operated drive system being movable on said carriage;  
a flushing head arranged on said carriage communicating with said rear end of said drilling rod detachable from or displaceable with said drilling rod; and a hydraulically operated in-hole hammer arranged on said front end of said drilling rod.



Compl. Specn. 17 Pages. Drgns. 3 Sheets

Cl. 150 D. 6

171318

Int. Cl. B 21 C, 37.08

"APPARATUS FOR THE CONTINUOUS PRODUCTION OF SMALL-DIAMETER ELECTRICALLY WELDED PIPES".

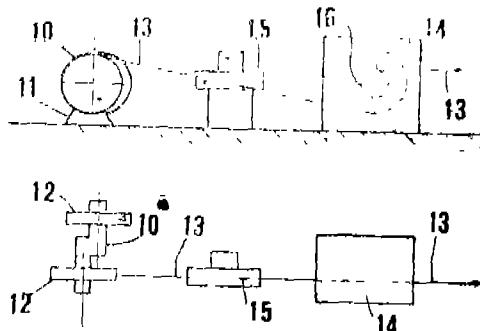
Applicant: MARCEGAGLIA S.P.A. of 46040 Gazoldo Degli Ippoliti, (Province of Mantova) Italy.

Inventor: STENO MARCEGALIA.

Application No. 212/Cal 1989, filed on March 15, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

Apparatus for the continuous production of small-diameter welded pipes, having a plurality of working units which are arranged in sequence and comprise a device for unwinding strips from reels of strips, a splicing-welding machine for connecting the ends of two successive strips, a strip accumulator for feeding the apparatus during the splicing of two strips, a strip degreasing unit, a strip forming machine for imparting thereto a tubular configuration with opposite and adjacent edges, a welding machine for welding the edges of the tubular configuration to one another to obtain a continuous pipe with an outer welding bead, a bead removing unit adapted to continuously perform the hot removal of the outer welding bead, a unit for cooling the bead-free pipe, a drawing machine to cold-reduce the diameter of the pipe by approximately 2.5 times, a degreasing unit for the drawn pipe, a furnace for preheating the pipe, a unit for annealing the preheated pipe and soaking it in a reducing atmosphere, a pipe cooling unit, a device for winding the pipe in reels, and a unit for testing and coiling the tested reels.



Compl. Specn. 19 Pages. Drgns. 3 Sheets.

Cl. : /1 E.

171319.

Int. Cl. : E 02 F 3/00

"A SUPPORT ASSEMBLY FOR EARTH EXCAVATING BUCKET MEANS"

Applicant: HARNISCHFEGER CORPORATION OF 13400 BISHOPS LANE, BROOKFIELD, WISCONSIN 53005, UNITED STATES OF AMERICA.

Inventors: (1) PAUL FREDERICK MARTIN,  
(2) CARL DEAN SWICK.

Application No. 163/Cal/1989, filed on February 27, 1989.

Appropriate office for opposition proceedings (Rule 4, Patent rule 1972) Patent Office, Calcutta.

10 Claims

A support assembly for earth excavating bucket means controlled by the forces of lift line means and pull line means, said bucket means having a pair of opposite side walls with an open forward end, a carrying position, and a dumping position, comprising :

A pair of movable means secured to the opposite bucket side walls, the lift line means and the pull line means each being attached to the pair of movable means, for applying the forces of the lift and pull line means to the bucket means and moving the lift and pull line means between a first and a second position respectively corresponding to the carrying and the dumping position of the bucket means and at which positions said forces are applied to the bucket means; and

the bucket means is movable from the carrying position toward the dumping position in response to movement of the lift and pull line means toward their second position and the application of the force of the lift line means to the bucket means.



Ind. Cl. : 87 D Gr. [XLII(4)]

171322

Int. Cl. : A 63 F. 3/00, 9/14

171323.

## AN APPARATUS FOR A BOARD GAME.

Applicant & Inventor : Azhar Samud Karim South African National of Indian Origin of 9 Bardia Avenue Reservoir Hills, 4091, Natal South Africa.

Application No. 339/Bom/1989. Filed on 11th December, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13

2 Claims

An apparatus for a board game, comprising :

a playing board for playing the game, having marked thereon a continuous main path, divided into demarcated divisions;

a set of game pieces for identifying players of the game,

at least one movement determining means for determining the movement of the game pieces along the paths defined on the playing board;

characterised in that the said main path has at least one diversionary path, divided into demarcated divisions, a number of demarcated divisions of the said main and diversion paths being associated with designated businesses and other demarcated divisions being associated with a set of instruction cards that provide for specified playing occurrences and instructions, as determined by the rules of the game;

a set of instruction cards comprising a deck of risk cards, a deck of information cards and a deck of public cards that are associated with specified playing occurrences and instructions that must be followed in the course of playing the game, in accordance with the rules of the game;

a set of business development tokens for placement on the business divisions, for performing business developments in the business divisions, in accordance with the rules of the game; and

a set of money tokens that can change hands between players for acquiring or disposing off businesses associated with the business divisions and business development tokens and for other eventualities in accordance with the rules of the game.

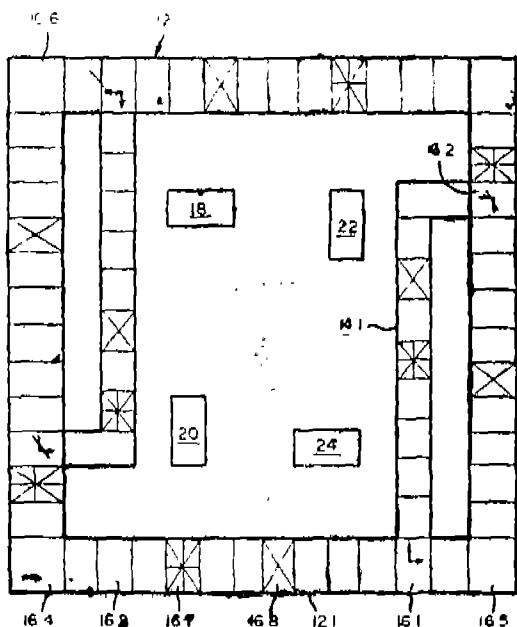


Fig. 1

Complete specification—10 pages;

Drawings—1 sheet.

Ind. Cl. : 170 B Gr. [XL III (4)]

Int. Cl. : C 11 D — 1/94

## DETERGENT COMPOSITION FOR WASHING AND SOFTENING FABRICS.

Applicant : HINDUSTAN EVER LIMITED HINDUSTAN LEVER HOUSE 165/166, BACKBAY RECLAMATION BOMBAY-400 020, MAHARASHTRA, INDIA A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventors : (1) ROGER BRACE

(2) ANDREW PAUL CHAPPIE

(3) PETER GRAHAM

Application No. 143/Bom/1990. Filed on 4th June, 1990. U.K. Priority applications Filed on 2-6-1989 and 28-12-1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

9 Claims

A detergent composition for washing and softening fabrics comprising at least one detergent active material such as herein described and, as a fabric softening agent a fabric softening clay mineral which is a dioctahedral 2 : 1 layer phyllosilicate comprising at least 100 micrograms of lithium per gram of clay mineral.

Complete specification—29 pages;

Drawings—Nil.

Ind. Cl. : 88F, Gr. [XXXII(3)]

Int. Cl. : B 01F 3/04.

## A DEVICE FOR REMOVAL OF IMPURITIES CONTAINED IN THE STACK GASES FROM THE BOILERS.

Applicant : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, A SOCIETY REGISTERED UNDER THE SOCIETIES REGISTRATION ACT XXI OF 1860, OF P. O. POLYTECHNIC, AHMEDABAD 380015, GUJARAT, INDIA.

Inventors : (1) SHAILEST RASIKCHANDRA BHATT

(2) NIKHIL KISHORCHANDRA DIXIT

(3) JAYATIBHAI PURSHOTTAMDAS PATEL

(4) RAJENDRA KUMAR DAHYALAL THAKKAR.

Application No. : 160/BOM/1990 ALONGWITH PROVISIONAL SPECIFICATION FILED ON 19-6-1990.

COMPLETE AFTER PROVISIONAL LEFT ON 3-4-1991.

Appropriate Office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Branch, Bombay-13.

## 8 CLAIMS

A device for removal of impurities being suspended particulate matter (SPM) and sulfurous oxides (SOX) contained in the stack gases of boiler comprising at least one sprayer fixed in the chimney or flue gas duct of the boiler, and means for pumping water through the said sprayers to produce water film screens perpendicular to the flow of stack gases to trap SPM and simultaneously absorb SOX contained therein.

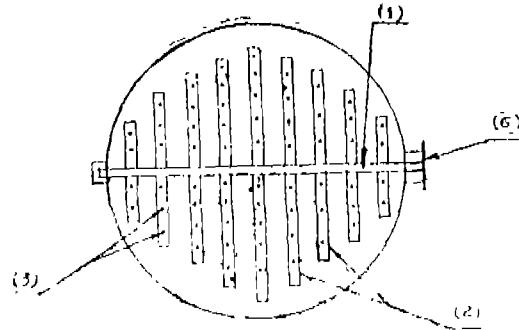


Fig. 1

Prov. Specn. 6 pages, Drg. 1 sheet.

Comp. Specn. 9 pages, Drg. 4 sheets,

Ind. Cl. : 170D [XLIII(4)] 171325  
 Int. Cl. : C 11D-1/02

**METHOD OF MAKING DETERGENT LAUNDRY BARS.**

Applicants : HINDUSTAN LEVER LTD. 165/166, Backbay Reclamation, Bombay-400 020, MAHARASHTRA, INDIA.

Inventor : PETER JAMES POWERS.

Application No. : 203/Bom/1990 Filed AUG 7, 1990. U.K. Convention Priority date—AUG 10, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

**8 Claims**

A method of making detergent laundry bars containing anionic detergent active, detergency builder and other ingredients, in which method a plurality of components including the detergent active and builder are mixed together and the mixture is formed into bars characterised by mixing at least one component of a two-component hardening system with the acid form of at least some detergent active prior to neutralisation thereof and incorporating the other component of the said system before or after the neutralisation, the said two components being a polyvalent metal compound and a silaceous material with the proviso that if silaceous material is mixed in before the neutralisation and the polyvalent metal compound is added after neutralisation, then the metal thereof is aluminum.

Compl. Specn. 27 pages; Drwgs Nil.

Ind. Cl. 170 D [XL III (4)] 171326  
 Int. Cl. C 11 D, 1/02.

**METHOD OF MAKING DETERGENT LAUNDRY BARS.**

Applicants : HINDUSTAN LEVER LIMITED, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020. MAHARASHTRA, INDIA.

Inventor : PETER HAMES POWERS.

Application No. 204/Bom/1990 Filed AUG 7, 1990. U.K. Convention date AUG 10, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

**2 Claims**

A method of making detergent laundry bars containing anionic detergent active, detergency builder and other ingredients, in which method a plurality of components including the detergent active and builder are mixed together and the mixture is formed into bars, characterized by including a water soluble phosphate, a water soluble polyvalent metal compound and a silaceous material in the mixture with an order of addition such that the phosphate is added before the polyvalent metal compound or the silaceous material or both of them.

Compl. Specn.—29 pages; Drwgs—Nil.

Ind. Cl. : 170 B [XL III(4)] 171327  
 Int. Cl. : C 11 D—3/395.

**STABLE BLEACHING COMPOSITIONS.**

Applicants : HINDUSTAN LEVER LTD., 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, INDIA.

Inventors : (1) ALAN DON BARBER  
 (2) STUART ALBERT FMMONS &  
 (3) ALAN JOHN FRY

Application No. 288/Bom/1990 Filed Nov. 8, 1990. U.K. Priority date Nov. 9, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

**7 Claims**

Stable bleaching composition comprising a persalt and a bleach activator, characterised in that it comprises essentially :

- (a) from 10% to 90% by weight of sodium percarbonate;
- (b) from 4% to 40% by weight of a bleach activator; and
- (c) From 5% to 85% by weight of an alkali metal bicarbonate, an alkali metal sesquicarbonate or an alkali metal dihydrogen orthophosphate,

wherein the ratio by weight of component (a) to (b) is not less than 4:5 and the ratio by weight of component (c) to (b) is not less than 5:4, with the proviso that, if component (b) is present at a level of more than 8%, the amount of component (c) should be at least 20%.

Compl. Specn.—16 pages;

Drwgs Nil.

Ind. Cl. : 170B [XLIII (4)] 171328

Int. Cl. : C 11 D-3/395.

**PROCESS FOR PREPARING PARTICULATE DETERGENT ADDITIVE BODIES AND USE THEREOF IN DETERGENT COMPOSITIONS.**

Applicant : HINDUSTAN LEVER LTD., 165/166, BACKBAY RECLAMATION, BOMBAY-400 020.

Inventors : (1) WILLIAM DEREK EMERY  
 (2) WILLIAM JOHN ILEY and  
 (3) PETER CORY KNIGHT

Application No. 289/Bom/1990 Filed Nov 8, 1990. U. K. Convention date—NOV 13, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

**12 Claims**

A process for preparing particulate detergent additive bodies containing from 10 to 90% by weight of active material, comprising the steps of treating a mixture comprising :

(a) from 10 to 90% by weight of a detergent additive, selected from the group consisting of peroxyacid bleach precursors, peroxyacid bleach compounds, chlorine bleach compounds and enzymes; and

(b) from 5 to 55% by weight of a hydratable material having a temperature of hydration of below 40°C with

(c) from 5 to 35% by weight of a polymeric material having a Glass Transition Temperature ( $T_g$ ) of from about 90°C to about 150°C,

in a high-speed mixer/granulator, whereby granulation is effected, forming smooth spherical bodies of low porosity and of a size within the range of from 200 to 200  $\mu\text{m}$ .

Compl. Specn.—29 pages;

Drwgs—Nil

Ind. Cl. : 77 D [XI(1)] 171329

Int. Cl. : C 11 B - 13/02

**PROCESS FOR REMOVING FATTY ACID METAL SOAPS FROM HYDROGENATED FATTY PRODUCTS.**

Applicants : HINDUSTAN LEVER LIMITED, 165/166, BACKBAY RECLAMATION, BOMBAY-400020, MAHARASHTRA, INDIA.

Inventors : (1) HENDRIKUS JACOBUS VAN DEN BERG  
 (2) ADELHEID DERYCK  
 (3) PIETER MART VAN DIJK  
 (4) CORNELIS MARTINUS LOK &  
 (5) JOHANNES CORNELIS OUDEJANS

Application No. 304 / Bom/1990 Filed NOV 23, 1990.

Ind. Cl. : 40 F [IV(1)]

171331

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 10 Claims

Process for removing fatty acid metal soaps derived from metals with an atomic number from 27 to 29 from hydrogenated fatty products comprising separating by filtration solid metal precipitated under the influence of hydrogen at a pressure ranging between 0.05 and 10 MPa from the hydrogenated fatty products.

Compl. specn.—13 pages;

Drwgs Nil

Ind. Cl. : 85 L

171330

Int. Cl. : F 27 B - 9/06

## AN IMPROVED KILN TO CARBONIZE CONTINUOUSLY AGRICULTURAL WASTE TO FINE CHAR.

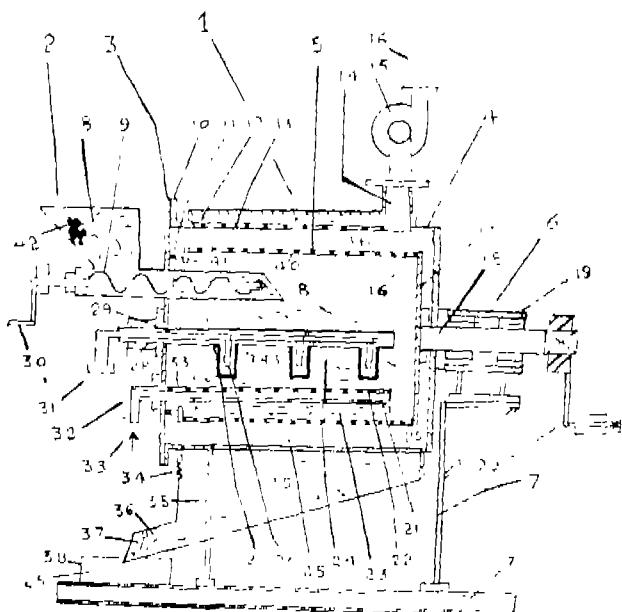
Applicants & Inventors : PRIYAL KHANDERAO KULKARNI AND VIJAY PRIYAL, KULKARNI, MOHOR, 64/17, ERANDAVANE, PUNE-411004, MAHARASHTRA STATE, INDIA.

Application No. 15 Bom/1991 filed on 15-1-1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

## 2 Claims

An improved kiln to carbonize continuously agricultural waste to fine-char, the kiln comprising an outer stationary drum on a horizontal axis in which a perforated drum with opening on one side is rotated slowly by a shaft extended out from the opposite closed side and the outer drum is provided with a closing flange on which are mounted a screw to feed pulverised agricultural waste into the said inner perforated drum and a pipe projecting into the inner drum, the said pipe fitted with ceramic tubes heated red hot by electric coils inside to ignite the agrowaste quickly and an inlet for air from outside and an escape outlet on top of outer drum for gases generated from combustion of agrowaste and a heavy serrated rod freely placed in inner drum to crush carbonized agrowaste to fine char and a vibrating chute suspended below the said outer drum to remove crushed fine char to an outside container through a flap door.



Complete specification : 10 pages. Drawing : One sheet.

Int. Cl. : B 01 J 8/18

## A FLUIDIZED BED REACTOR.

Applicant : A AHLSTRON CORPORATION, A CORPORATE BODY OF FINLAND, OF SF-29600 NOORMARKU, FINLAND.

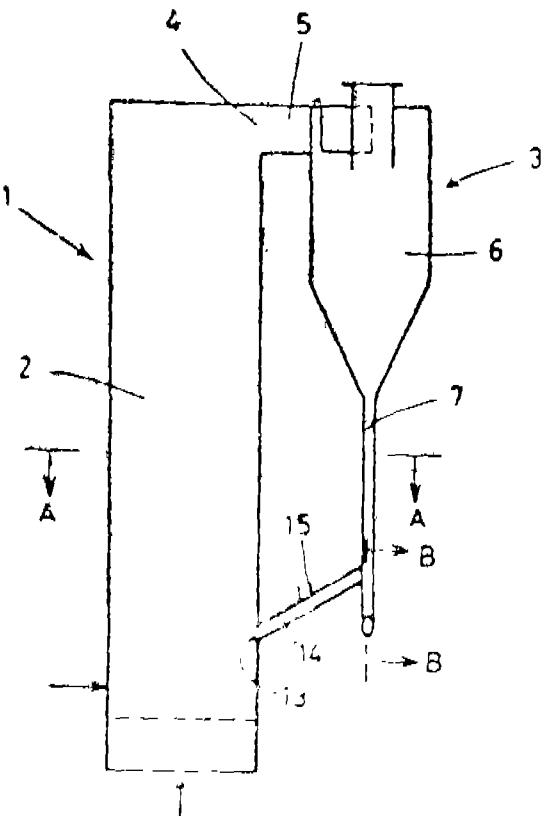
Inventors : 1. MARKKU KOSTAMO, 2. MARTTI PUHAKKA.

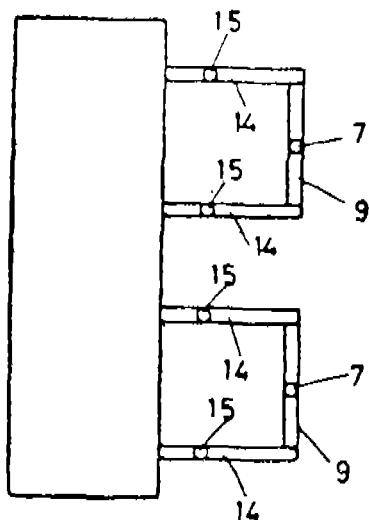
Application No. 262/Mas/88 filed on 25th April 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

## 7 Claims

A fluidized bed reactor comprising, a reactor chamber (2); discharge parts (4) for removing a flue gas with entrained solid particles from the said reactor chamber (2); a cyclone separator (3) connected to the said discharge parts (4) for separating the solid particles from the flue gas; recycling means (5) for recycling at least a portion of the separated particles to the said reactor chamber (2), the said recycling means (5) having a loop seal fluidizing means (17) for fluidizing the separated portion into discrete particle streams and conveying means (11, 14) for conveying the separated particle streams to the said reactor chamber (2) and the said loop seal has a horizontal duct (9), inlets of the said reactor chamber (2) being spaced from the said horizontal duct in a horizontal plane and the said fluidizing means (17) has plenum chamber and means defining a plurality of fluid distribution nozzles for directing fluid from the plenum chamber into the horizontal duct.





(Compl. Specn. 15 pages;

Drgs. 3 sheets)

Ind. Cl. : 32 B [IX(1)]; 40 A 1 [IV(1)]. 171332

Int. Cl.<sup>4</sup> : C 07 C—1 04.

## PROCESS AND APPARATUS FOR THE CATALYTIC PREPARATION OF HYDROCARBONS.

Applicants : SHELL INTERNATIONALE RESEARCH MAASTERSCHAPPIJ B. V. OF CAREL VAN BYLANDT-IAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS A NETHERLANDS COMPANY.

Inventors : MAARTEN JOHANNES VAN DER BURGT, SYTZE ABEL POSTHUMA, MARC DEN HARTOG.

Application No. 270/Mas/88 filed on 27th April 1988.

Convention dated 29th April, 1987; No. 8710170 (U.K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

10 Claims

Process for catalytic preparation of hydrocarbons containing at least two carbon atoms per molecule from a gas mixture consisting of hydrogen and carbon monoxide comprising the steps of contacting the said gas mixture with a catalyst having an element of Group 8 of the Periodic Table of Elements supported on a refractory oxide carrier at a temperature from 100 to 500°C, maintained at a total pressure from 1 to 200 bar abs., passing the gas mixture through a reaction zone containing catalyst particles at a space velocity from 200 to 20,000 m<sup>3</sup> (STP) gaseous feed/m<sup>3</sup> reaction zone hour, while removing heat from the reaction zone by indirect heat exchange with a cooling medium which flows via one or more helical patterns containing one or more helices and recovering the hydrocarbons so prepared.

(Compl. Specn. 15 pages;

Drg. Nil)

Ind. Cl. : 97 F [LIX(2)] 171333

Int. Cl.<sup>4</sup> : H 05 B 6/80.

## "METHOD AND APPARATUS FOR PRODUCING AN ARTICLE BY MICROWAVE HEATING".

Applicant : POROUS PLASTICS LIMITED, A BRITISH COMPANY, OF PAVILION 3, LITTLE PARK FARM ROAD, SEGENSWORTH, FAREHAM, HANTS PO15 5TB, ENGLAND.

Inventors : 1. RODERICK LAIN DAVIDSON, 2. PETER RIDSDALE HORNSBY.

Application No. 298/Mas 88 filed on 6th May, 1988.

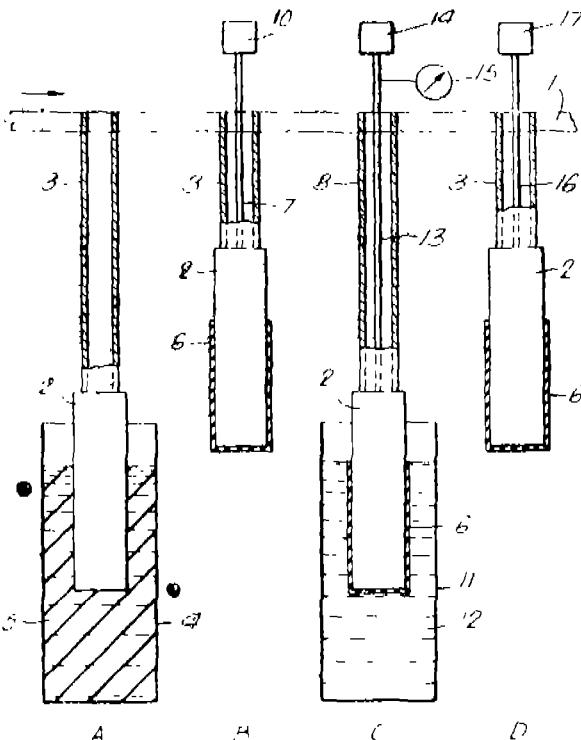
Convention dated : 7th May 1987, No. 87/10833 (UK).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

12 Claims

A method of producing an article such as herein described comprising the steps of :

covering an external surface of at least a portion of a former (2) with liquid-containing material (5); providing heating so as to leave a dry solid coating (6) on said former (2); and effecting relative separation between the former (2) and the dry solid coating (6) so as to produce the article wherein the former (2) is a microwave-heatable former which is heated by being subjected to microwave radiation so as to produce the said dry solid coating (6).



(Compl. Specn. 15 pages;

Drg. 1 sheet)

Ind. Cl. : 107-G &amp; 156-D&amp;E [GROUPS XLVI(2) &amp; XLVII (3)]. 171334

Int. Cl.<sup>4</sup> : F 01 B 1/08.

## A POWER CONVERSION MACHINE.

Applicant : 3 D INTERNATIONAL A/S, OF FRIDTJOF MANSENS PLESS 7, N-0160 OSLO 1, NORWAY, A NORWEGIAN COMPANY.

Inventor : THOR LARSEN.

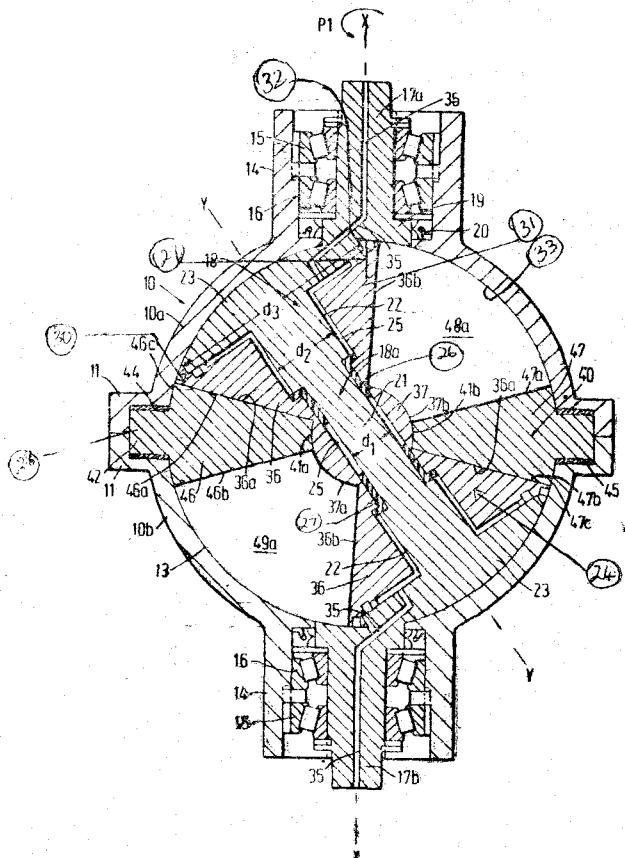
Application No. 317/MAS/88 filed on May 13, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

11 Claims

A power conversion machine having a pair of mutually opposite, separately double acting pistons (36) capable of turning motion in a spherical housing (10), the said pistons

are rigidly connected to each other via a common hub portion (37) centrally in the spherical housing and partition plates (40) are disposed on its each side centrally and transversely extending passing through the hub portion (37) through the diametrically opposite ends of the said pistons (36) and asymmetrically relative to each said piston via its respective rotary pin (17a, 17b) in the spherical housing about a first axis (x-x), each said double acting piston (36) being in the form of a spherical segment with piston surfaces (36a, 36b) facing in the opposite direction and a spherical surface (36c), said spherical surface (36c) forming the outermost portion of said piston (36) and innermost portion of the said spherical segment are connected to each other via said hub portion (37) with intermediate part-cylindrical hub portion surfaces (37a, 37b) forming bearing surfaces against equivalent part-cylindrical partition wall surfaces (41a, 41b), and the said partition plate (40) is pivotably mounted in the spherical housing about a second axis (z-z) crossing the first axis (x-x) in the centre of the spherical housing at the opposite ends of the said hub portion (37) of the said pistons (36), the said pistons (36) being provided with bearing portions having a part-cylindrical bearing surface for each piston and with end bearing surfaces corresponding to the end bearing surfaces in the said hub portion (37) of the said pistons (36).



depth; elimination stage connected after the second filter stage, consisting of at least one basin filled with gravel, planted with rushes and percolated horizontally along its entire breadth and depth; an adsorption stage following the elimination stage, consisting of at least one basin filled with loamy sand, planted with reeds, and percolated horizontally along its entire breadth and depth; the sewage can be fed onto the surface of the vertically percolated basin during the frost-free period and the feeding of sewage during the frost period through a pipe network installed 20 to 30 cm below the surface in a 10 cm layer of gravel.

(Com. - 11 pages;

Drwgs. - 7 sheets)

Ind. Class : 144 D [XII(3)]

171337

Int. Class<sup>4</sup> : B 05 D 5/00.

**AN AQUEOUS COMPOSITION FOR DETACKIFICATION OF PAINT FROM PAINT SPRAY BOOTHS.**

APPLICANT : CALGON CORPORATION, a corporation organised under the laws of the state of Delaware, United States of America, of Route 60-Campbell's Run Road, Robinson Township, Pennsylvania, United States of America.

INVENTOR : CHARLES A FAUST.

Application No. 332/MAS/88 filed on 19th May, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

**7 Claims**

An aqueous composition for detackification of paint from paint spray booths comprising a water with an alkalinity between 50 and 1100 ppm on a calcium carbonate basis, 10 to 10,000 ppm of a melamine aldehyde-type polymer and 10 to 10,000 ppm of a polymeric coagulant for water.

Compl. specn. 18 pages;

Drwgs Nil

Int. Cl. : 32B [IX(1)]

171338

Int. Cl.<sup>4</sup> : C 07 C 15/18.

**IMPROVED PROCESS FOR THE PREPARATION OF 2,2 - PARACYCLOPHANE.**

Applicants : UNION CARBIDE CORPORATION, a corporation organized under the laws of the State of New York, United States of America, of Old Ridgebury Road, Danbury, State of Connecticut 06817, United States of America.

Inventors : Chinsoo Lee.

David Robinson Bassett.

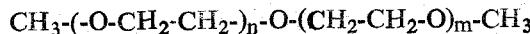
Application No. 358/MAS/88 filed on 25th May 1988.

Appropriate office for the opposition proceedings Rule 4, Patents Rules, 1972) Patent Office Branch, Madras.

**9 claims**

An improved process for the preparation of 2,2-paracyclophane comprising the steps of reacting an aqueous solution of p-methylbenzyl trimethyl ammonium halide with an alkaline hydroxide in the presence of dimethylsulfoxide, an inert water immiscible organic solvent and at least one reaction promoter selected from the group consisting of :

(a) a methyl alkylene ether of the formula :



Wherein n has a value of from 1 to 18, and m is 0 or 1 to 4, and

(b) a crown ether having from 4 to 6 oxygen atoms and from 12 to 18 carbon atoms, and thereafter recovering said 2, 2-paracyclophane in a known manner.

(Compl. specn. 22 pages;

Drwgs. 3 sheets)

Ind. Class. 84 B [XXXII (2)]

171339

Int. Class<sup>4</sup> : C 10 L 1/14.

**"AN IMPROVED FUEL COMPOSITION"**

Applicant : CHEVRON RESEARCH COMPANY, a corporation duly organized under the laws of the State of Delaware, United States of America, of 555 Market Street, San Francisco, CA, U. S. A.

INVENTOR : THOMAS F. BUCKLY III.

Application No. 429/MAS/88 filed on 23rd June 1988.

Appropriate Office for Opposition Proceedings Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

**2 Claims**

An improved fuel composition comprising a hydrocarbon boiling in the gasoline or diesel range and 30 to 5,000 parts per million of an alkylphenyl poly (oxy-propylene) aminocarbamate having at least one basic nitrogen and an average molecular weight of 600 to 6,000, wherein the alkyl group of said alkylphenyl poly (oxypropylene) aminocarbamate is a substantially straight-chain alkyl group of at least 15 carbon atoms.

(Compl. specn 44 pages;

Drwgs 3 sheets)

Ind. Class : 35 C [GROUP-XXV(2)]

171340

Int. Cl.<sup>4</sup> : C 04 B 7/40

**A PROCESS OF MANUFACTURING HARDENED GRANULES**

Applicant : AARJELITE HOLDING BV OF INDUSTRIEWEG 70, 8071 CW NUNSPEET, THE NETHERLANDS, A COMPANY INCORPORATED IN NETHERLANDS.

Inventors : (1) JACOBUS JOHANNES SPANJER  
(2) PIETER DIRK RADEMAKER

Application No. 604/MAS/88 filed August 29, 1988.

Convention date : July 20, 1988; (No. 19250/88. Australia)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**9 Claims**

A process for manufacturing hardened granules, produced by mixing at least fly ash obtained from combustion of a material selected from a coal product and lignite, an inorganic binder and water, forming granules of said mixture, hardening said granules by heating in an finegrained inorganic embedding material at a temperature between 85 and 213 F° and separating the hardened granules from the embedding material, said embedding material being either used or unused for forming granules, characterised in that the granules to be cured are fed into a hardening reactor embedded in fingergrained inorganic embedding material with a water adsorption capacity of at least 8% and free from compound which generate heat when in contact with water, and heating the mixture of said granules and said embedding material in the hardening reactor by introducing steam into the said mixture to raise and maintain the temperature between 85 and 212°F keeping the volume ratio between the said embedding material and said granules between 0.2 and 1, allowing the steam introduced into the said hardening reactor to condense on said embedding material, keeping the pH of the moist embedding material above 4.

(Com - 15 pages;

Drwg - 1 Sheet)

IND. CL. : 35 D.

171341

INT. CL.<sup>4</sup> : C 04 B, 7/34.

## HYDRAULIC CEMENT MIX AND A PROCESS FOR MANUFACTURING THE CEMENT MIX.

Applicant : MARTIN MARIETTA CORPORATION, OF 6801 Rocklidge Drive Bethesda, Maryland 20817 United States of America, a corporation duly organised under the laws of the State of Maryland, United States of America.

INVENTOR : ARTHUR HARRY GERBER.

Application for Patent No. 259/DEL/84 filed on 23rd March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 31 Claims

A hydraulic cement mix comprising hydraulic cement aggregate, and an additive mixture comprising a composition consisting of water soluble thiosulfates (1) and one or more salts of thiocyanic (2) acid such as herein described; a composition comprising alkanolamine (3) related water soluble alkanolamines and alkanolamino acids; and a composition comprising one or more salts of nitric acid such as herein described; said additive being present in an amount sufficient to accelerate the rate of hardening of said hydraulic cement mix and to increase its compressive strength after hardening.

A process for manufacturing a hydraulic mix comprising admixing hydraulic cement, aggregate, and an additive mixture comprising a composition consisting of water soluble thiosulfates and one or more salts of thiocyanic acid such as herein described; a composition comprising alkanolamine and related water soluble alkanolamines and alkanolamino acids; and a composition comprising one or more salts of nitric acid such as herein described; said additive being incorporated in an amount sufficient to accelerate the rate of hardening of said hydraulic cement mix and to increase its compressive strength after hardening.

COMPLETE SPECIFICATION 28 PAGES DRAWING SHEET ONE.

IND. CL. : 127 A.

171342

INT. CL.<sup>4</sup> : F 16 D 25/00.

## DRIVE MECHANISM FOR USE IN A VEHICLE ENGINE.

Applicant : THE BENDIX CORPORATION, of Bendix Center, Southfield, Michigan 48037, United States of America, a corporation organised and existing under the laws of the State of Delafer, United States of America.

INVENTORS : BRIAN CHARLES DEEM &amp; JOHN LAWRENCE HALL.

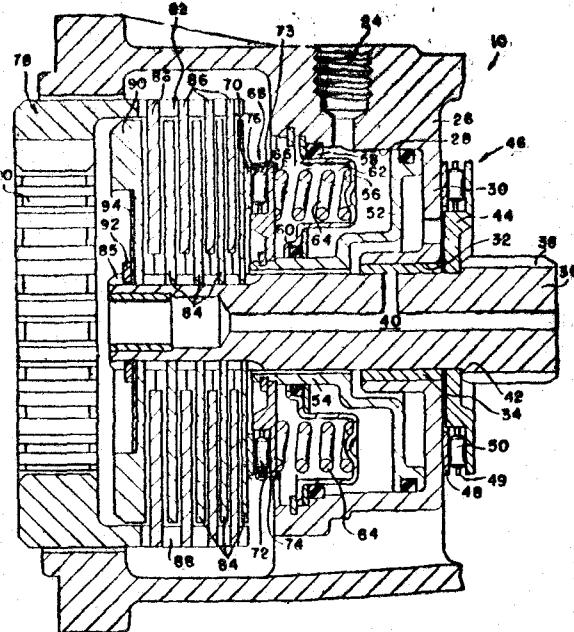
APPLICATION FOR PATENT NO. : 412/DEL/84 filed on 17th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 11 Claims

Drive mechanism for use in a vehicle engine comprising a housing defining a bore therewithin, output drive means rotatably supported by said housing for providing an output driving connection, input drive means for providing an input driving connection, clutch means for providing a driving connection between the input drive means and the output drive means when the clutch means is engaged and for breaking said driving connection when the clutch means is disengaged, resilient means yieldably engaging said clutch means, means for operating said clutch means, and means for communicat-

ing fluid pressure from a fluid pressure source to said clutch operating means, characterized in that said clutch operating means includes piston means slidably mounted in said bore and movable in response to fluid pressure to engage and disengage said clutch means, first bearing means for providing a connection between the piston means and said clutch means for providing a rotary connection therebetween to permit rotation of the clutch means while the piston means does not undergo rotation, and second bearing means for transmitting the load generated by said resilient means on the clutch means to said housing.



COMPLETE SPECIFICATION 10 PAGES DRAWING SHEET ONE.

Ind. Cl. : 77 B<sub>2</sub>

171343

Int. Cl.<sup>4</sup> : A23D 3/02 & 5/00.

## PROCESS FOR THE EXTRACTION OF OIL AND FAT BY ULTRASONICS FROM OILSEEDS.

Applicant & Inventor : RENE BERNARD GUILLOT, OF 10 CHEMIN DES BUISSONS, 45220 CHATEAURE-NARD, FRANCE, A FRENCH NATIONAL.

Application for Patent No. 243/Del/87 filed on 20 March 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

A process for extraction of oil and fat from dry oil seeds which comprises subjecting said oil seeds to mechanical processing such as crushing and/or flattening, partially extracting fat and oil from said processed seeds by subjecting said seeds to solvent extraction in the presence of a solvent of the kind such as herein defined—subjecting said seeds ultrasonics in the presence of said solvent, washing said seeds to external spraying of said seeds with said solvent to obtain a solution of oil and fat in said solvent, and recovering in any known manner said oil and fat from said solution by subjecting said solution to distillation characterised in that said seeds are subjected to said mechanical processing without prior thermal cooking, and that said solvent extraction is carried out under agitation and at a temperature not exceeding 55°C.

(Compl. specn. 15 pages)

Drg. 2 sheets)

Ind. Cl. : 37B

171344

Int. Cl. : B01 D17/00.

PROCESS FOR REPLACING THE LIQUID COMPONENT OF A SLURRY BY A SECOND LIQUID & APPARATUS FOR CARRYING OUT SUCH PROCESS.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND.

Inventors : JAMES WILLIAM WEM & PARTEN WILLIAM DAVID.

Application for Patent No. 282/Del/87 filed on 2 April 1987.

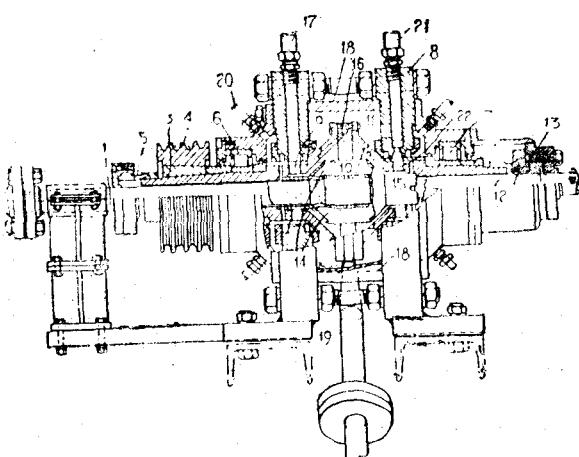
Convention date 9 April 1986 & 12 August 1986/19585/ U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 12 Claims

A process for the production of a slurry composed of a solid and a desired liquid by replacing the liquid component of an initial slurry composed of said solid and a first liquid by said desired or second liquid, the density of said solid being greater than that of both liquids or the density of the second liquid being intermediate between that of the solid and said first liquid which comprises feeding said initial slurry against a barrier permeable to solids within said initial slurry, rotating said second liquid in contact with said barrier on a side remote from said initial slurry and rotating said initial slurry against said barrier thereby expelling by means of centrifugal forces the solid component of said initial slurry out of said slurry, through said permeable barrier and into said second liquid to form therewith the desired slurry.

Apparatus for carrying out the process claimed in any of claims 1 to 10 which comprises a rotor (3) having inner (72) and outer (71) chambers, means for feeding a slurry from one end of said rotor to said inner chamber (72) and means for accelerating said slurry radially to a liquid withdrawal zone, said inner chamber being provided at or in an opening communicating with said outer chamber with a barrier permeable to the solids within said inner chamber, said opening being located at a substantial radial distance beyond said liquid withdrawal zone, said other chamber being provided with inlet means for leading a second liquid at an angular velocity similar to that of the rotor to said outer chamber to mix with solids passing through said barrier and said opening and form therewith a slurry composed of said solids and said second liquid, said outer chamber being provided with a narrow aperture or apertures through which the formed slurry is discharged, said aperture or apertures being located at a greater radial distance from said liquid withdrawal zone than said barrier or said opening.



(Compl. specn. 16 pages)

Drg 3 sheets

Ind. Cl. : 32 B

171345

Int. Cl. : C07C 4/06.

PROCESS FOR MAXIMUM MIDDLE DISTILLATE PRODUCTION WITH MINIMUM HYDROGEN CONSUMPTION.

Applicant : UOP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL OFFICE LOCATED AT 25 EAST ALGONQUIN ROAD, DES PLAINES, ILLINOIS, U.S.A.

Inventors : MICHAEL JEROME HUMBACH & JOHN GILBERT HALE.

Application for Patent No. 310/Del/87 filed on 13 Apr 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 7 Claims

1. A process for the conversion of an aromaticrich, distillable gas oil charge stock to selectively produce large quantities of high quality middle distillate such as herein described while minimizing hydrogen consumption which process comprises the steps of :

- reacting said charge stock with hydrogen, in a hydrocracking zone containing a catalyst comprising a combination of catalytically effective amounts of Group VIB or Group VIII of a metal with a refractory inorganic oxide at hydrocracking conditions including a maximum catalyst bed temperature in the range of 315°C to 454°C selected to convert at least a portion of said charge stock to lower-boiling hydrocarbon products including middle distillate and to convert at least about 10 volume per cent of the aromatic hydrocarbon compounds contained in said charge stock to provide an increased concentration of paraffin hydrocarbon compounds in the resulting hydrocracking reaction zone effluent;
- separating by conventional methods said resulting hydrocarbon reaction zone effluent to provide a middle distillate product stream and a paraffin-rich hydrocarbonaceous stream boiling at a temperature greater than 371°C;
- recovering said middle distillate product stream;
- converting said paraffin-rich hydrocarbonaceous stream recovered in step (b) in a non-catalytic thermal reaction zone at mild thermal cracking conditions including an elevated temperature from 371°C to 526°C, a pressure from 207 kPa gage to 6895 kPa gage and an equivalent residence at 482°C from 1 to about 60 seconds to provide a non-catalytic thermal reaction zone effluent; and
- separating by conventional methods said non-catalytic thermal reaction zone effluent to provide a middle distillate fraction boiling in the range from 149°C to 371°C and a heavy fraction boiling at a temperature greater than 371°C.

(Compl. specn. 27 pages)

Drg. 2 sheets

Ind. Cl. : 35 B

171346

Int. Cl. : C04 B 26/00.

A METHOD FOR MANUFACTURING AN IMPROVED SYNERGISTIC CEMENT MORTAR AND CONCRETE COMPOSITION.

Applicant : ALUFLUOR AKTIEBOLAG, A SWEDISH COMPANY OF BOX 902, S-251 09 HELSINGBORG, SWEDEN.

Inventors : SVENSSON KJELL.  
ZECHNER SEPP.

Application for Patent No. 578/Del/87 filed on 8-7-87.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A method for manufacturing an improved synergistic cement mortar and concrete composition having improved properties, comprising adding to a conventional cement mortar and concrete composition, a sludge in an amount to replace 1% to 10% of the cement as otherwise prescribed for the said cement mortar and concrete, a said sludge being a waste product obtained in the manufacture of aluminium fluoride and including 6% to 15% silica, 8 to 12% aluminium, 23 to 28% fluorine, 22 to 30% calcium, all percentages being by weight.

(Compl. specn. 11 pages)

Drgs. 5 sheets)

Ind. Cl. : 32-C.

171347

Int. Cl. : C 10 C 3/00.

A PROCESS FOR THE PRODUCTION FROM COAL TAR OF AN IMPROVED PITCH MATERIAL.

Applicant : BERGWERKSVERBAND GMBH, A GERMAN COMPANY OF FRANZ-FISCHER-WEG 61, 4300 ESSEN 13, WEST GERMANY AND DIDIER ENGINEERING GMBH, A GERMAN COMPANY, OF ALFREDSTR, 28, 4300 ESSEN 1, WEST GERMANY.

Inventors : INGO ROMEY, RUDOLF GEIER, ROLF HELMUT JOEST, WILHELM WULLSCHEIDT.

Application for Patent No. : 46 Del/88 filed on 19th January, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the production from coal tar of an improved pitch material having the following parameters :

- (a) mesophase content of 2%,
- (b) content of toluene-insolubles (B-resins) between 58 and 75%,
- (c) content of chinoline-insolubles of 2%,
- (d) softening point in the 200 to 300°C range; according to the Kramer-Sarnow (KS) measurement,
- (e) content of volatile matter 20% and
- (f) ash content of 0.06%

which comprises :

- (A) adding to a coal tar containing up to 10% solids selected from ash coal particles and chinoline insolubles (Primary-resins) and exhibiting a softening point of 100°C from between 1% and 10% filtering agents of the kind described;
- (B) subjecting the mixture thus obtained to hot filtration to obtain a solid residue and a filtrate; and
- (C) subjecting the filtrate to thin-layer evaporation at a temperature of from 300°C to 425°C at a pressure of 10 mill bar.

(Compl. Specn. 11 Pages.

Drgs. 2 sheets)

Ind. Cl. : 71 F.

171348

Int. Cl. E 02 B 17/00, B 63 B 21/00.

NON-RIGID MARINE PLATFORM FOR USE IN DEEP WATER APPLICATIONS.

Applicant : DORIS ENGINEERING, A FRENCH COMPANY, OF 58A, RUE DU DESSOUS DES BERGES, 75013 PARIS, FRANCE.

Inventors : JEAN FRANCOIS MARIE PEPIN-LEHAILEUR, LOIC MARIE JACQUES DANGUY DES DESFRTS.

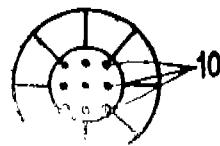
Application for Patent No. 47/Del/88 filed on 19-1-1988

Appropriate Office for Opposition Proceeding (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims.

A non-rigid marine platform for use in deep water applications, said platform comprising a plurality of flexible piles anchored to the sea bed supporting a deck equipped with production means having wellheads connected to the upper ends of conducting tubes, said conducting tubes being guided by guide frames (12) spaced along the said flexible piles, characterised by a rigid structure (3) supporting the deck (1), floats (4) fixed to the lower part of said rigid structure, and a flexible structure (5) formed by piles (11), said piles (11) fixed by their upper ends to the rigid structure (3) and to the floats (4), lower ends of said piles (11) being fixed to a base (6) provided on the sea bed, said piles (11) being held under a total tension force exerted thereon by the floats (4) which force is greater than the total compression force on the conducting tubes (10) ensuring the stability thereof.

FIG. 9A



(Compl. Specn. 11 pages.

Drgns. 3 sheets)

Ind. Cl. : 206 E.

171349

Int. Cl. 4 : G 06 F 15/00.

DATA PROCESSING SYSTEM.

Applicant : INTERNATIONAL BUSINESS MACHINES CORPORATION, OF ARMONK, NEW YORK 10504, UNITED STATES OF AMERICA, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : CHESTER ASBURY HEATH, JOHN KENNEDY LANGGOOD, RONALD EUGENE VALLI.

Application for Patent No. 49/Del/88 filed on 20th January, 1988.

Convention Date : 27-10-1987/8725111/U.K.

Appropriate Office for Opposition Proceeding (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims.

A data processing system having a plurality of input/output sockets (2-0 to 2-7) to which peripheral control cards (5-0 to 5-7) of various types are attachable, at least one of said cards (5-0 to 5-7) having storage means for permanently storing an identity value indicating the type of said card and memory means (21) for storing parameter data transferred from said system, said system further comprising;

a non-volatile memory (10) for preserving in one of locations thereof assigned to respective sockets (2-0 to 2-7), the identity value and parameter data of said card attached to one of said sockets (2-0 to 2-7) before a system power-down;

means (14) coupled to said sockets (2-0 to 2-7) and said non-volatile memory, effective after power-up following the system power-down for comparing the identity value (ID) stored in the storage means (21) of said card attached



ammonium nitrate of the kind such as herein described present in an amount in the range of from 90 to 98 wt.% a carbonaceous fuel of the kind such as herein described present in an amount in the range of from 2 to 9 wt.% and at least one hydrocarbon oil soluble polymer of the kind such as herein described present in an amount in the range of from 0.01 to 1.0 wt.% having an h/c value of up to 100 to form said explosive composition.

A process for preparing ammonium nitrate-based explosive composition comprising, contacting 90 to 98 wt.% of high density particulate ammonium nitrate of the kind such as herein described in the substantial absence of water with a liquid mixture constituted by 2 to 9 wt.% of a carbonaceous fuel of the kind such as herein described and 0.01 to 1.0 wt.% of at least one polymer of the kind such as herein described characterized by an h/c value of up to 100 to form a dry, pourable ammonium nitrate explosive composition.

(Complete Specification 43 Pages).

Ind. Cl. 85 A XXX I

171354

Int. Cl. F 16 C 13/00.

**APPARATUS FOR ROTATING A HEATED CYLINDRICAL VESSEL OR SHELL OF A DRUM AND WITH A MINIMUM OF HEAT TRANSFER TO A DRIVING ELEMENT.**

Applicant : FULLER COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 2040 AVENUE 'C' P.O. BOX 2040, BETHLEHEM,

PENNSYLVANIA 18001, UNITED STATES OF AMERICA.

Inventors : JOHN CARR.

Application for Patent No. 628/DEL/87 filed on 23rd July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims.

An apparatus for rotating a heated cylindrical vessel or shell of a drum and with a minimum of heat transfer to a driving element comprising :

a gear (22) having an outer periphery containing teeth for meshing with a driving toothed member wherein the inner surface of said gear (22) is located substantially concentric to the outer surface of said cylindrical vessel (21) and encircles the same; characterised by

a plurality of coupling members (2) connecting the interior periphery of said gear (22) to the outer periphery of said cylindrical vessel (21), each of said coupling members (2) having at least one bracket (24) attached to the outer periphery of said cylindrical vessel (21), at least one link member (25) pivotally connected at one end (5) to said one bracket (24) and pivotally connected at its other end (6) to said gear (22) at a position circumferentially spaced from said one bracket (24), said link member (25) permitting expansion and contraction of said cylindrical vessel (21) relative to said gear (22) while maintaining connection between said cylindrical vessel (21) and said gear (22).

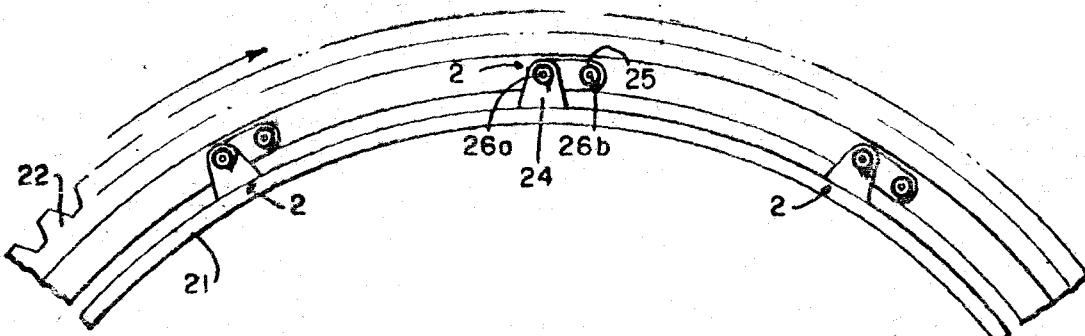


Fig. 1

(Complete Specification 13 Pages

Ind. Cl. : 162 LXIV (7), 38 LXIV (2),

171359

Int. Cl. : F 16 G 11/04, 11/00.

**A SOCKET FOR EQUALISING WIRE ROPES.**  
Applicants : ESCO CORPORATION, AN OREGON CORPORATION, OF 2141 N.W. 25th AVENUE PORTLAND, OREGON 97210, UNITED STATES OF AMERICA.

Inventor : TERRY LEE BRISCOE.

Application for Patent No. 676/DEL/87 filed on 31st July, 1987.

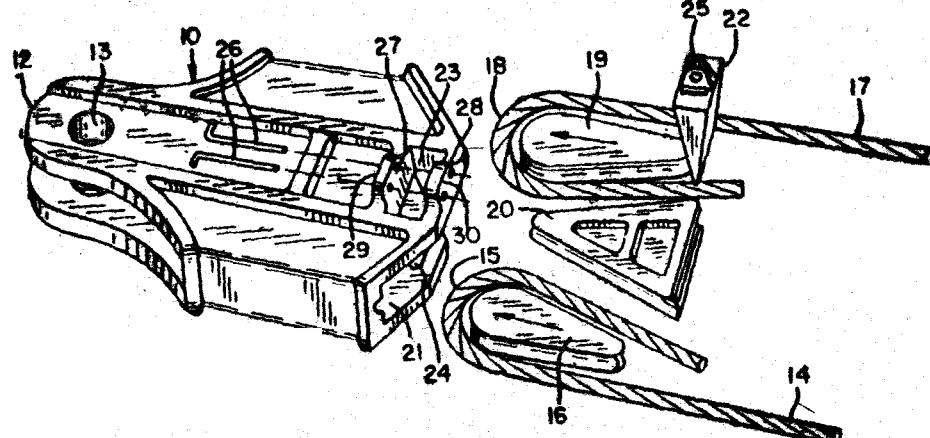
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

Drawing 3 Sheets).

7 Claims.

A socket for equalising wire ropes when a plurality of wire ropes are used in hoisting or dragging mechanisms or the like, said socket comprising an elongated housing (10) having upper and lower ends, a hole (11) adjacent to said upper end for connection to a chain or the like, an opening extending inwardly of said housing from said lower end for the receipt of a plurality of looped wire ropes (14, 17) a plurality of grooved wedges (16, 19) around which each said wire ropes is looped, said looped ropes wedges being located in side-by-side relation in said opening and with said wedges being tapered toward said lower end, a double tapered wedge (20) is provided within said opening between pair of said looped ropes to bear with.

Fig. 3



(Complete Specn. 12 Pages.

Drgns. 3 Sheets).

Ind. Cl. : 128 G

171355

Int. Cl. : A61J 3/00.

## A CATHETER FOR USE IN ANGIOPLASTY.

Applicant: ADVANCED CARDIOVASCULAR SYSTEMS, INC., OF MOUNT VIEW, CALIFORNIA 94041, UNITED STATES OF AMERICA.

Inventor: RICHARD LEON MUELLER.

Application for Patent No. 678 Del 87 filed on 03 Aug 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

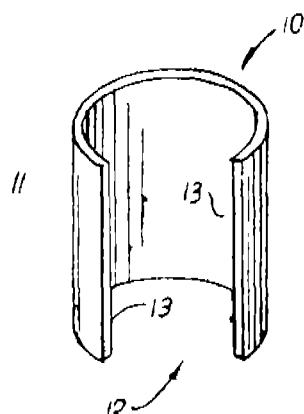
A catheter for use in angioplasty comprising:

an elongate flexible outer tubular member (19) having proximal and distal ends;

an inflatable balloon (18) near said distal end of said outer tubular member (19) providing an interior chamber therein and having a distal portion bonded to an inner member (16);

a vent opening (24) extending distally from the interior of said inflatable balloon and providing fluid communication with the surrounding exterior environment; and

a split, cylindrically shaped sleeve (11) of radiopaque material being disposed between said distal portion of said inflatable balloon (18) and said inner member (16), having an arc length of less than 360° and a longitudinal gap (12) between confronting edges (13) thereof with said vent opening (24) disposed within said gap.



(Comp. Specn. 8 pages.)

Drg. 1 sheet)

Ind. Cl. : 126 (C+D) I.VIII (6)

171356

Int. Cl. : H 02 P 5/00.

## A SPEED VARIATOR.

Applicant: LA TELEMECANIQUE ELECTRIQUE A FRENCH COMPANY, OF 33 BIS, AVENUE DU MARCHE, JOFFRE, 92000 NANTERRE, FRANCE.

Inventor: CHRISTIAN CONRATH.

Application for Patent No. 689/DEL/87 filed on 7-8-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 10 Claims

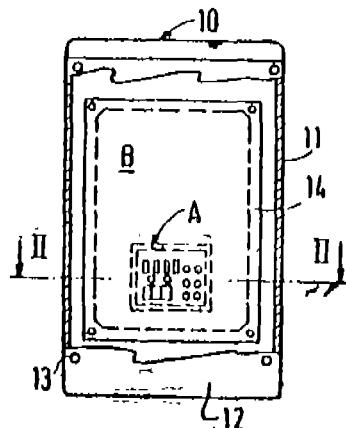
A speed variator (10) having an adjustment and dialogue device characterised in that said device comprises:

—a fixed support disposed in the variator and having, on the one hand, adjusting potentiometers (16) for the respective operating parameters of the variator, on the other hand, an alphanumeric display device (17) for displaying the effective values of the respective parameters, and at least one advance knob (15) enabling the operator to sequentially examine the respective parameters.

—a processor (23) having inputs connected to the advance knob (15), and to the potentiometers (16) through at least one A-D converter (25), outputs connected to the display device (17), means for scrutinizing the inputs connected to the adjusting potentiometers and means for displaying on a display device (17), in response to the actuation of the advance knob, a code representative of the scrutinized parameter and/or the value of said parameter,

—the support being one part of a printed circuit control card located in a casing of the speed variator,

—said casing having on its front face a removable part to give the operator access to the support.



(Comp. Specn. 12 pages.)

Drwg 2 sheets)

Ind. Cl. : I A 136 F

171357

Int. Cl. : B 65 B 1/00.

METHOD OF PRODUCING PROTECTIVELY COATED MOULDED BLOCKS OR SECTIONS OF A PERMANENT ADHESIVE COMPOSITION.

Applicant: SOCIETE NOUVELLE RAFFINERIE MERIDIONALE DE CERESINES-BELIX, A COMPANY ORGANISED UNDER THE LAWS OF FRANCE, OF 2-4, RUE CLOVIS HUGUES--93700 DRANCY, FRANCE.

Inventor: GERARD VIEL.

Application for Patent No. 699/DEL/87 filed on 11-8-87.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 4 Claims

A method of producing protectively coated moulded blocks or sections of a permanent adhesive composition (as herein described) which can be transported or stored without danger of the blocks or sections sticking to one another or being contaminated by impurities, said method comprising the steps of: introducing in any known manner the permanent adhesive composition into at least one mould;

hardening in any known manner the permanent adhesive composition so that it takes the shape of said mould;

characterised in that prior to the introduction of said permanent adhesive composition into the mould a continuous screen of powdery material (as herein described) is first formed on inner surfaces of said mould by electrostatically charging the powdered material while applying said powdery material to the inner surfaces of the mould, said inner sur-

face of the mould being maintained at an opposite polarity to the charge of the powdered material whereby the powdered material on applying the same to the mould clings to the mould inner surfaces and remains electrostatically fixed in position; said permanent adhesive composition being introduced on top of the fixed continuous screen of powdery material while electrostatically maintaining said screen intact so that on hardening the adhesive the continuous powdery material adheres thereto and

discontinuing said electrostatic charge so that the screen of powdered material is released from the mould surfaces and on removal of the shaped article from the mould said powdery material effectively covers and protects the entire shaped surfaces of the adhesive composition which were opposite the inner surfaces of the mould.

(Comp. Specn. 32 pages.)

Drwg 3 sheets

Ind. Cl. : 76 C, E LXIV (4).

171358

Int. Cl. : A 47 G 29/00.

FASTENING DEVICE FOR FASTENING ITEMS TO ANY OF A HOLLOW, THICK OR SOLID SUPPORT MEMBER.

Applicant : MECHANICAL PLASTICS CORP., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, OF CASTLETON STREET, PLEASANTVILLE, NEW YORK, UNITED STATES OF AMERICA.

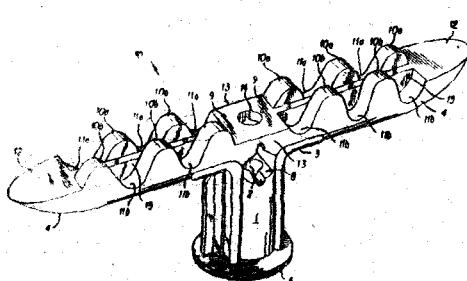
Inventors : THOMAS WILLIAM MCSHERRY, NATHANIEL HENRY GARFIELD.

Application for Patent No. 736/DEL/87 filed on 21st August 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 17 Claims

A fastening device for fastening items to any of a hollow, thick or solid support member and of the kind wherein at least a portion of the fastening device (10) is inserted within a hole in the support member, said fastening device (10) comprising an anchoring element connected to a base element (1), said anchoring element being movable to achieve narrowest dimension of the fastening device for insertion within said hole and a position whereby the fastening device is locked to said support member, characterised in that said anchoring element comprises at least two arms (4, 4) connected to said base element (1), said arms (4, 4) having means (10a, 11a, 10b, 11b) for interfitting said arms (4, 4) with each other to achieve said narrowest dimension for insertion of the anchoring element (10) in said hole and in which position interfitting portions on peripheral edges of said arms (4, 4) are juxtaposed and closely spaced and said arms (4, 4) also providing means (9, 14, 15) for engaging an external fastening member inserted through a hole in said base element (1).



(Comp. Specn. 21 pages.)

Drwg 3 sheets

Ind. Cl. : 32 F 3 b, 32 F 3 C IX (1).

171359

Int. Cl. : C 07 C 31/22, 53/00, C 77 C 1/04.

#### A PROCESS FOR THE PRODUCTION OF FATTY ACIDS AND GLYCEROL.

Applicant : COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, UNITED STATES OF AMERICA.

Inventors : EDWARD ALBERT TAVSS, EDWARD EIGEN.

Application for Patent No. 741/DEL/87 filed on 24-8-87.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 7 Claims

A process for the production of fatty acids and glycerol from high melting fats such as beef tallow, said process comprising hydrolyzing an emulsified mixture of said high melting beef tallow and a vegetable oil of the kind such as herein described, said beef tallow being present in the weight ratio of 75% to 90% and said vegetable oil in the weight ratio of 25% to 10%, said hydrolysis being conducted in an aqueous medium and in the presence of a non-stereospecific animal or vegetable lipase enzyme at a temperature in the range of from 25°C to 50°C, and at a PH of 4 to 5.5, to produce fatty acids and glycerol.

(Comp. Specn. 19 pages.)

Drwg. sheets Nil

Ind. Cl. : 32E & 152 E.

171360

Int. Cl. : C 08 F 114/06.

#### A THERMOPLASTIC COMPOSITION OF VINYL CHLORIDE RESIN AND GLASS FIBERS.

Applicant : THE B.F. GOODRICH COMPANY, A NEW YORK CORPORATION, OF 3925 EMBASSY PARKWAY, AKRON, OHIO 44313, UNITED STATES OF AMERICA.

Inventors : DOUGLAS BRUCE RAHRIG ANGELO JOSEPH MAGISTRO AND RICHARD CHRIST PARKER.

Application for Patent No. 747/DEL/87 filed on 25th August 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

#### 8 Claims

A thermoplastic composition of vinyl chloride resin and glass fibers particularly well-adapted to be thermoformed, comprising a mixture of, (a) from 50 percent to 95 percent by weight (% by wt.) based on the combined weight of glass fibers and vinyl chloride resin, of a vinyl chloride resin in which the vinyl chloride portion of each repeating unit contains from 57% to 72% by weight of chlorine, (b) a stabilizer such as herein described for said vinyl chloride resin, present in an amount sufficient to provide desired stability of the composition during thermoforming, and, (c) from 5% to 50% by weight of glass fibers having a diameter less than 20 microns coated with a size consisting essentially of (i) an aminosilane coupling agent as herein described and (ii) a polymer film former, characterised in that said film former as herein described having a basicity greater than that of poly (vinyl acetate) and sufficient to leave enough said resin coupled to said fibers after thermoforming, to yield a ratio of total chlorine to carbon C1 (2p)/C(1s) of at least 0.91, measured as the ratio of areas under the peaks, after extraction of said composition, after thermoforming with tetrahydrofuran.

(Comp. Specn. 19 pages.)

Drwg sheets Nil

## OPPOSITION PROCEEDINGS

The opposition entered by M/s. Hindustan Lever Limited, Bombay to the grant of a patent on Application No. 169286 (148/MAS/89) made by M/s. Beecham Group Plc, England as notified in Part III, Section 2 of the Gazette of India, dated 28th March, 1992, could not proceed further, as the Applicant's have withdrawn their application.

The Notice of Opposition filed by Council of Scientific & Industrial Research to the grant of a Patent on Application No. 168900 made by Combustion Engineering Inc. as notified in the Gazette of India, Part III, Section 2 dated 25th January 1992, the proceeding is deemed to have not been launched and ordered to be sealed.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

Claim made by Dowell Schlumberger Incorporated, of 400 West Belt South, Houston, Texas 77001, U.S.A., under Section 20(1) of the Patents Act, 1970 to proceed the Application for Patent No. 170553 in their name has been allowed.

PATENT SEALED ON 21-8-92

159989\* 164316 166684\* 167872\* 168451\* 168453 168554  
 168858 168855\* 168900 168957 168993\* 169005\* 169009\*  
 169010\* 169085 169173 169176 169177 169178 169181  
 169183 169184 169192 169198\* 169199\* 169200 169202  
 169203 169204 169205 169206 169207 169208 169209 169210  
 169211 169212 169213 169214 169215 169217\* 169219\*  
 169245\* 169250D 169291\* 169299F 169314\* 169343\*  
 169344 169347 169349 169350 169387\* 169408 169639\*  
 169793 169834 169965\* 169968\*.

Cal-11, Del-7, Mas-40, and Bom-2.

"Patent shall be deemed to be endorsed with the words "LICENCE OF RIGHT" Under Section 87 of the Patent Act, 1970 from the date of expiration of three years from the date of sealing.

D—DRUG Patent, F—FOOD Patent.

163969 164051 164099 164115 164197 164340 164365 164315  
 164712 164782 164829 165008 165086 165208 165287 165367  
 165427 165499 165570 165740 166070 166125 166273 166379  
 166384 166558 166631 166870 166884 166930 167072 167105  
 167194 167232 167252 167353 167408 167535 167571 167673  
 168117 168290 168426 168442 168444 168464 168466 168469  
 168472 168479 168581 168595 168630 168635 168657 168673  
 168801 168849 168911 168918 168919 168932 168933 168936  
 168972 169300 169493 169496.

## RENEWAL FEES PAID

148813 149184 149632 149965 150917 150953 152290 152739  
 152763 152783 153207 154169 154255 154824 154948 155374  
 155455 155670 155761 156600 156623 156709 156712 156974  
 157076 157197 157232 157358 157496 157555 157958 158164  
 158175 158338 158402 158703 158730 159094 159137 159200  
 159352 159439 159721 160232 160674 160694 160822 160849  
 160869 160938 161036 161037 161443 161602 161711 161832  
 161833 162071 162112 162146 162182 162422 163090 163096  
 163301 163526 163659 163954.

## CESSATION OF PATENTS

152301 152327 152329 152330 152339 152356 152362 152364  
 152383 152388 152394 152405 152414 152419 152425 152432  
 152433 152437 152444 152447 152462 152487 152490 152504  
 152507 152528 152535 152537 152566 152567 152577 152578  
 152587 152593 152595 152596 152601 152608 152624 152629  
 152640 152651 152660 152663 152667 152671 152674 152681  
 152683 152688 152696 152721 152724 152726 152738 152742  
 152750 152757 152764 152771 152773 152780 152785 152794  
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152842 152851 152855 152857 152868 152877 152888 152890  
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 152942 152945 152962 152968 152973 152986 152987 153041  
 153057 153058 153063 153067 153068 153073 153108 153123  
 153162 153174 153193 153263 153284 153324 153325 153418  
 153419 153420 153440 153443 153454 153517 153530 153548  
 153574.

## RESTORATION OF PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 158511 dated the 11th July 1983 made by Sports Equipment Pvt. Ltd. on the 12th June 1991 and notified in the Gazette of India Part III, Section 2 dated the 9th November 1991 has been allowed and the said Patent restored.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 161348 granted to Santanu Roy for an invention relating to "improvements relating to a wind machine for generating power from wind."

The Patent ceased on the 27th June 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part III, Section 2 dated the 12th September 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta 700020 on or before the 19th November, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application for restoration of Patent No. 162973 dated the 12th December 1984 made by Maschinenfabrik Rieter Ag. on the 5th December 1991 and notified in the Gazette of India Part III, Section 2 dated the 2nd February 1992, has been allowed and the said Patent restored.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 165269 granted to Sree Chitra Tirunal Institute for Medical Sciences & Technology for an invention relating to "blood oxygenator integral with Cardiotomy reservoir".

The Patent ceased on the 4th August 1991 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 12th September 1992.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor 234/4, Acharya Jagadish Chandra Bose Road, Calcutta 700020 on or before the 19th November 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Name Index of Application for Patents in respect of Patent Office Calcutta & its branches for the month of March, 1992 (Nos. 134/Cal/92 to 212/Cal/92, 66/Bom/92 to 102/Bom/92, 120/Mas/92 to 200/Mas/92 and 175/Del/92 to 292/Del/92.)

Name and Application No.

CALCUTTA

(134/Cal/92 to 212/Cal/92).

—A—

American Cyanamid Co.—199/Cal/92, 200/Cal/92 & 210/Cal/92.

Asahi Kasei Kogyo Kabushiki Kaisha—179/Cal/92.

—B—

Banerji, B.—182/Cal/92.  
Bollmann Hydraulik GmbH—154/Cal/92.

—C—

Chang, D.P.—143/Cal/92.  
Chattopadhyay, S.K.—145/Cal/92.  
Chow, Y.W.—201/Cal/92.  
Combustion Power Co. Inc.—177/Cal/92.

—D—

Dasgupta, A. R.—168/Cal/92.  
Das, P.I.—187/Cal/92.  
De Nora Permelec S.P.A.—175/Cal/92.  
Dutta, B.—185/Cal/92.

—E—

E.I. Du Pont De Nemours and Co.—166/Cal/92.  
Eaton Corporation—144/Cal/92, 159/Cal/92, 172/Cal/92, 173/Cal/92 & 174/Cal/92.  
Engelhard Corporation—157/Cal/92 & 190/Cal/92.  
Environmental Bioscience Corporation—163/Cal/92.  
Erema Engineering Recycling Maschinen Und Anlagen Gesellschaft m.b.H—180/Cal/92.

General Electric Co.—164/Cal/92.

—H—

Himont Incorporated—183/Cal/92 & 184/Cal/92.  
Hitachi Ltd.—194/Cal/92.  
Hoechst Aktiengesellschaft—134/Cal/92, 135/Cal/92 & 209/Cal/92.  
Hoechst Celanese Corporation—139/Cal/92, 140/Cal/92, 197/Cal/92, 198/Cal/92 & 205/Cal/92.

—I—

ICI India Ltd.—160/Cal/92.

—K—

Kabita Refractories Pvt. Ltd.—203/Cal/92.  
Kabushiki Kaisha Tanisake—149/Cal/92.  
Koenig und Bauer Aktiengesellschaft—158/Cal/92.  
Kortec Ag.—170/Cal/92.  
Kurihara, Y.—142/Cal/92.

—L—

Lee, W.Y.—136/Cal/92.

—M—

Mahapatra, P.K.—156/Cal/92.  
Mukherjee, C.R.—165/Cal/92.

—N—

Nath, S.—141/Cal/92.

—O—

Orissa Cement Ltd.—188/Cal/92.

—R—

Roy, S.—181/Cal/92.

—S—

SEB S.A.—202/Cal/92.  
Samsung Electron Devices Co. Ltd.—222/Cal/92.  
Samsung Electronics Co. Ltd.—150/Cal/92, 151/Cal/92, 161/Cal/92 & 162/Cal/92.  
Sarma, A.P.—171/Cal/92.  
Sensotech, J.P.—153/Cal/92.  
Sharma, K. K. M.—155/Cal/92.  
Sharma, K. P.—169/Cal/92.

Shaw, T.J.—186/Cal/92.

Siemens Aktiengesellschaft—147/Cal/92, 148/Cal/92 & 176/Cal/92.

Somar Corporation—137/Cal/92.

Sotac Corporation—196/Cal/92.

Spindelfabrik Sussen, Schurr, Stahlecker & Grill GmbH—206/Cal/92.

Stahlecker, F.—191/Cal/92, 192/Cal/92, 193/Cal/92, & 207/Cal/92.

Stahlecker, H.—191/Cal/92, 192/Cal/92, 193/Cal/92 & 207/Cal/92.

Stone & Webster Engineering Corporation—208/Cal/92.

—T—

Tampella Power Oy—204/Cal/92.

Thomson Consumer Electronics, Inc.—138/Cal/92.

Thomson Consumer Electronics, S.A.—167/Cal/92.

Thyssen Schweisstechnik GmbH—211/Cal/92.

Trutzschler GmbH & Co. Kg—146/Cal/92.

—U—

Urich, J.F.—178/Cal/92.

—V—

Voest Apline Eisenbahnsysteme Gesellschaft m.b.H—189/Cal/92.

—W—

White Consolidated Industries, Inc.—152/Cal/92.

Windmoller & Holscher—195/Cal/92.

BOMBAY

(66/Bom/92 to 102/Bom/92).

—A—

Agarwal, V.B.—99/Bom/92.

Amin, M.—77/Bom/92.

Ashida Electronics M/s—70/Bom/92.

—B—

Balskar, V.S.—90/Bom/92.

Bist, D.S.—71/Bom/92.

Bullworker Pvt. Ltd.—67/Bom/92.

—C—

Chaudhary, T.R. (Shri)—97/Bom/92.

Crompton Greaves Ltd.—76/Bom/92.

—D—

Desai, P.W.—98/Bom/92.

Desai, W.G.—98/Bom/92.

Dhami, A.C.—78/Bom/92 & 79/Bom/92.

Dhami, C. K.—78/Bom/92 & 79/Bom/92.

Dhami, R.C.—78/Bom/92 & 79/Bom/92.

—G—

Greaves Fosaco Ltd.—80/Bom/92, 81/Bom/92 & 82/Bom/92.

—H—

Hada, R.S. (Shri)—95/Bom/92.

Heble, N.D.—90/Bom/92.

Hindustan Lever Ltd.—100/Bom/92.

Hukerikar, V.D.—101/Bom/92.

Joswal, R.S.—66/Bom/92.

—K—

Kalke Mhatre Associates M/S—92/Bom/92.  
 Kemlesh Soni—72/Bom/92 & 73/Bom/92.  
 Kulkarni S.P. (Mr)—68/Bom/92

—L—

Lubrizol India Ltd.—86/Bom/92 & 87/Bom/92.  
 Lunagur, B.P.—78/Bom/92 & 79/Bom/92

—O—

Outomec Oy—83/Bom/92.

—P—

Palkhiwalla, M.R.—101/Bom/92.  
 Panchal, P.M.—69/Bom/92.  
 Parekh, D.K.—74/Bom/92.  
 Patel, K.B.—78/Bom/92 & 79/Bom/92.  
 Patil, C.S.D. (Mr)—68/Bom/92.

—R—

Raman, S.T.—91/Bom/92.

—S—

Sabale, P.B. (Shri)—96/Bom/92.  
 Scitech Centre—93/Bom/92 & 94/Bom/92.  
 Sharma, S.K.—84/Bom/92 & 85/Bom/92.  
 Sinter Plast Containers—89/Bom/92.  
 Surve, S.S.—75/Bom/92.

—T—

Taparia Tools Ltd.—88/Bom/92.  
 Tata Research Development & Design Centre—102/Bom/92.

### MADRAS

(120/Mas/92 to 200/Mas/92).

Name and Application No.

—A—

Advance Ship designk Pty. Ltd.—167/Mas/92.  
 Ahlstrom Corporation—198/Bom/92.  
 Alfa Institut AG—165/Mas/92.  
 American Telephone and Telegraph Co.—125/Mas/92.  
 Aware, Inc—129/Mas/92 & 188/Mas/92.  
 Aymanathuparampil—197/Mas/92.

—B—

Borden, Inc—190/Mas/92.

—C—

Carpigiani S.r.l.—133/Mas/92  
 Chandramohan, D—189/Mas/92.  
 Charles, D.M.—158/Mas/92 & 159/Mas/92.  
 CHEN, J-F—187/Mas/92.  
 Chevron Research and Technology Co.—143/Mas/92.

—D—

D.S.M. N.V.—123/Mas/92.  
 Delta System Design Ltd.—186/Mas/92.  
 Deva Ia, P.V.—140/Mas/92.  
 Drayoco Gerberding & Co., GmbH—124/Mas/92.

—F—

Fernandez, A—161/Mas/92, 162/Mas/92 & 163/Mas/92.  
 Fertilisers and Chemicals Travancore Ltd., The—137/Mas/92, 138/Mas/92 & 139/Mas/92.  
 Foseco International Ltd.—145/Mas/92 & 149/Mas/92.

General Instrument Corporation—154/Mas/92, 155/Mas/92, 156/Mas/92 & 157/Mas/92.  
 Godwhaman, M—147/Mas/92.  
 Gordon, D (Jr)—142/Mas/92.

—H—

Hawargi, S.N.—174/Mas/92.  
 Himont Incorporated—195/Mas/92.

—I—

Invento AG—192/Mas/92.

—K—

Kabushiki Kaisha Kito—169/Mas/92.  
 Kurimoto Ltd.—122/Mas/92 & 177/Mas/92.

—L—

Lipha-Lyonnaise Industrielle Pharmaceutique—166/Mas/92.  
 Llyd, B—142/Mas/92.

—M—

M & G Ricerche S.P.A.—183/Mas/92 & 184/Mas/92.  
 Man Gutehoffnungshutte Aktiengesellschaft—193/Mas/92.  
 Marcimo S.n.c.—200/Mas/92.  
 Marley Cooling Tower Co., The—135/Mas/92 & 136/Mas/92.  
 Marmom Corporation of Canada Ltd., The—130/Mas/92.  
 Mars, Inc—185/Mas/92.  
 McGill, S.R.—126/Mas/92.  
 Minnesota Mining and Manufacturing Co.—172/Mas/92.  
 Mitsui Petrochemical Industries, Ltd.—178/Mas/92.  
 Monsanto Co.—173/Mas/92.

—N—

Nassetti Ettore S.P.A.—148/Mas/92.  
 Nasir, K.Z.—179/Mas/92.

—O—

ONX, Inc.—180/Mas/92.

—R—

Raveendran, K. K.K.—146/Mas/92.  
 Reddy, L.C. (Sri)—141/Mas/92.  
 Regents of the University of California, The—170/Mas/92.

—S—

Schubert & Salzer Maschinenfabrik AG—134/Mas/92.  
 Scovill Japan Kabushiki Kaisha—150/Mas/92 & 151/Mas/92.  
 Shell International Research Maatschappij B.V.—171/Mas/92.  
 Shri Nataraj Ceramic and Chemical Industries Ltd.—120/Mas/92 & 121/Mas/92.  
 Siska Diagnostics Inc.—170/Mas/92.  
 Shamprogetti, S.P.A.—160/Mas/92.  
 Societe Des Produits Nestle S.A.—175/Mas/92.  
 Sollac—168/Mas/92.  
 Steinfurter Eisenwerk GmbH—193/Mas/92.

—T—

T. Sendzimir, Inc.—181/Mas/92 & 182/Mas/92.  
 Techneal Promotion—199/Mas/92.  
 Tecumseh Products Co.—127/Mas/92, 128/Mas/92 & 175/Mas/92.

—U—

Union Carbide Chemicals & Plastics Technology Corporation—164/Mas/92, 194/Mas/92 & 196/Mas/92.

—V—

Vijayan, T.A.—152/Mas/92 &amp; 153/Mas/92.

—W—

Waeschle Maschinenfabrik GmbH—191/Mas/92.

Walvekar, H.K. (Shri)—131/Mas/92 &amp; 132/Mas/92.

Weber, K.—144/Mas/92.

## DELHI

(175/Del/92 to 292/Del/92)

Name and Application No.

—A—

AMP Incorporated—248/Del/92.

Aktiebolaget Astra—222/Del/92.

Alcan International Ltd.—177/Del/92.

Allen-Bradley Co., Inc.—200/Del/92.

—B—

BICC Public Ltd. Co.—206/Del/92.

BP Chemicals Ltd.—283/Del/92.

Bansal, S.P.—278/Del/92.

Bhambri, G.P.—277/Del/92.

Boryung Pharmaceutical Co. Ltd.—244/Del/92.

—C—

Chief Controller Research &amp; Development—276/Del/92.

Clark Equipment Co.—271/Del/92.

Colgate-Palmolive Co.—249/Del/92.

Council of Scientific &amp; Industrial Research—190/Del/92, 191/Del/92, 192/Del/92, 213/Del/92, 214/Del/92, 215/Del/92, 216/Del/92, 229/Del/92, 230/Del/92, 259/Del/92, 260/Del/92, 261/Del/92, 262/Del/92, 263/Del/92, 264/Del/92, 265/Del/92, 266/Del/92, 267/Del/92, 279/Del/92, 280/Del/92, 281/Del/92 &amp; 282/Del/92.

Courtaulds PIC—257/Del/92.

Custom Expressions, Inc.—270/Del/92.

—D—

David, T.J.—217/Del/92.

Domino Printing Sciences PLC—236/Del/92.

—E—

Edger, J.P.—268/Del/92.

Exxon Chemical Patents, Inc.—205/Del/92.

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—F—

FMC Corporation—176/Del/92.

Frenkel C-D Aktiengesellschaft—254/Del/92.

—G—

GEC Alsthom SA—228/Del/92.

Gillette Co., The—202/Del/92, 232/Del/92, &amp; 245/Del/92.

—H—

Helyer, L.E.—223/Del/92.

—I—

Ide, R.D.—204/Del/92 &amp; 275/Del/92.

Imperial Chemical Industries PLC—195/Del/92.

—J—

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—K—

Kabushiki Kaisha Toshiba—272/Del/92.

Khanna, R.—274/Del/92.

Kitamura Eiden Co. Ltd.—290/Del/92.

Kumar, R.—287/Del/92.

Kumar, S.—287/Del/92.

—L—

Life-Verkaufsgerate-Gesellschaft m.b.H—208/Del/92.

Lubrizol Corporation—218/Del/92, 219/Del/92, 220/Del/92 &amp; 221/Del/92.

—M—

M &amp; FC Holding Co.—247/Del/92.

Mann, S.—197/Del/92.

Maschinenfabrik Sulzer-Burckhardt AG—255/Del/92.

Max Factor K. K.—238/Del/92 &amp; 250/Del/92.

McLaren Cars Ltd.—269/Del/92.

Motorola Inc.—207/Del/92, 209/Del/92 &amp; 286/Del/92.

Motorola Lighting, Inc.—187/Del/92 &amp; 188/Del/92.

—N—

N. V. Bekaert S.A.—227/Del/92.

Natural Product Sciences, Inc.—176/Del/92.

Nippon Paint Co. Ltd.—238/Del/92.

Norsk Hydro A.S.—239/Del/92.

—O—

Olin Corporation—225/Del/92.

Otsuka Pharmaceutical Co. Ltd.—289/Del/92.

—P—

Pande, H. C.—178/Del/92.

Parke Davis &amp; Co.—251/Del/92 &amp; 252/Del/92.

Paul Wurth S.A.—226/Del/92.

Primo Bertocchi—240/Del/92.

Prochind S.P.A.—203/Del/92.

Procter &amp; Gamble Co., The—183/Del/92, 199/Del/92, 210/Del/92, 211/Del/92, 212/Del/92, 233/Del/92 &amp; 234/Del/92.

Punjab Tractors Ltd.—198/Del/92.

Purkait, R. (Dr.)—273/Del/92.

—R—

Raghava, R. P.—184/Del/92 &amp; 193/Del/92.

Rice Tec Inc.—237/Del/92.

Rohm &amp; Haas Co.—189/Del/92.

Rohm GMBH—256/Del/92.

—S—

Saurer Sticksystem AG—186/Del/92.

Scapa Group PLC—284/Del/92.

Sharma, O.P.—175/Del/92.

Shell International Research Maatschappij B.V.—292/Del/92.

Shell Oil Co.—196/Del/92.

Sriram Institute for Industrial Research—179/Del/92, 180/Del/92, 181/Del/92 &amp; 182/Del/92.

Sime Industrie—224/Del/92.

Simmons-Rand Co.—242/Del/92.

Societe De Conseils De Recherches Et D' Applications Scientifiques S.C.R.A.S.—285/Del/92.

Sony Corporation—235/Del/92.

Stanadyne Automotive Corporation—288/Del/92.

—T—

T. J. Gundlach machine Co.—241/Del/92.

Tandon, S.—246/Del/92.

Tokimec Inc.—253/Del/92.

Tsuno Food Industrial Co., Ltd.—185/Del/92.

—V—

Vickers Incorporated—253/Del/92.

—W—

W. R. Grace &amp; Co.—194/Del/92.

Warman International Ltd.—243/Del/92.

Witco Corporation—258/Del/92.

## COMMERCIAL WORKING OF PATENTED INVENTORS

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as committed by patentees in their statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1990 generally on account of want of request for licence to work the patented invention, persons who are interested to work the said patents commercially may contact the Patentees for the grant of a licence for the purpose.

Patent No. No.	Date of Patent	Name & Address of Patentee	Title of the Invention
1	2	3	4
153536	24-12-80	Asahi Kasei Kogyo Kabushiki Kaisha, 2-6 Dojima-cho 1-Chome Kita-ku, Osekashi, Osaka, Japan.	A method for the preparation of a hydrogen evolution electrode.
158601	12-10-82	The Babcock & Wilcox Company, 1010 Common Street, New Orleans, Louisiana 70160, U.S.A.	Circuit for regulating the output voltage of a device e.g. photo cell.
158674	02-7-83	The Babcock & Wilcox Company.	A circuit for extracting the square-root of an incoming signal.
159296	04-5-83	Do.	Digital generation of 3 phase PWM wave- forms for variable speed control of induction motor.
159628	12-10-82	Do.	Linearing circuit.
159946	18-3-83	Do.	Exception quantization & communication of process signals for displays & control purposes.
160362	18-4-83	The Babcock & Wilcox Company, 1010 Common Street, P. O. Box 600038, New Orleans, LA U.S.A.	A three phase variable frequency constant tor- que controller for a high torque servopositioner.
161221	30-6-83	The Babcock & Wilcox Company.	A force transducer for generating an output signal.
161474	03-8-83	Do.	Constant current source for field contact in-put.
162198	01-1-85	Do.	An electrical connection block for a flat ribbon cable having a plurality of conductors.
162597	15-3-85	Do.	An electronic optical sensor arrangement.
164060	28-4-86	Do.	On line serial communication interface from a transmitter to a current loop.
164088	01-5-86	Do.	On line serial communication interface from a computer to a current loop.
164698	06-5-86	Do.	Voltage pulse to current regulating converter.
164819	06-5-86	Do.	Low level voltage pulse convertor.
164863	06-5-86	Do.	Low power high efficiency switching power supply.
165456	30-4-86	The Babcock & Wilcox Company 1010 Common Street, New Orleans Louisiana 70112, U.S.C.	On line serial communication interface from a current loop to computer and/or terminal.
161476	05-9-83	Chubu Electric Power Comp of 1 Higashishin- Cho Higashi-Ku, Nagoya Shi, Aichi-Ken Japan.	Insulator for lighting Arrestor.
158453	22-4-83	Energy Conversion Devices 1675 West Niplo Road Troy Michigan 48084, USA.	Improved rechargeable battery & electrode used therein.

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155620	13-7-83	Energy Conversion Devices.	Anode from electrolytic cell and a method of making the same.
160085	13-7-83	Do.	Improved alkaline fuel cell.
161224	22-2-84	Do.	Thermo electric device exhibiting decreased stress.
161384	13-7-83	Do.	Fuel cell & an anode within.
164471	29-10-84	Do.	A hydrogen storage electrode for an alkaline hydrogen storage electrochemical cell & an alkaline hydrogen storage electrochemical cell comprising electrode.
157552	31-8-82	FMC Corporation 200 East Randolph Drive, Chicago, Illinois 60601, U.S.A.	An active type asynchronous data communications system for transmitting information between a plurality of interconnected & serially arranged terminals.
161251	14-6-85	Fukuda Denshi Co Ltd 39-4 Hongo 3-Chome Bunkyo-ku Tokyo 113, Japan.	Clip-type electrode for electro-cardiographs.
165374	14-6-85	Do.	Improved clip type electrode for electro-cardiograph.
147438	04-12-77	GEC Ferranti Defence Systems Ltd., Holinwood, Lancashire England.	Electric circuits for digitising data.
164539	20-6-86	Heinz Krug care Akademie Meru Station 2*, NL-6063 NP Vlodrop Netherland.	Circuit arrangement for testing integrated circuit components.
163399	18-4-85	Hughes Aircraft Co, 7200 Hughes Terrace P.O.-Box-45006 Los Angeles, California-900450066.	A method for encapsulating an electrical component.
164413	24-7-85	Hughes Aircraft Co.	Optical path line of sight stabilization apparatus for viewing a target.
161805	20-8-85	ICT Plc	Apparatus for electrically igniting an ignition element using remotely generated control signals.
159267	02-4-83	Jeumont Schneider 31-32, Quai de Dion Bouton, 92811 Puteaux Cedex France.	Total security time-delay circuit.
162585	19-10-84	John K Junkers 7 Arrowhead Lane Siddle River NI 07458, D7458, U.S.A.	Manual ratchet torque wrench with amplifier.
164422	08-11-85	KIA Motors Corp 514-5 Sijung Dong Joro-ku Seoul, Korea.	Automatic control circuit for brake control devices used in cars.
153086	19-9-80	Magnesium Electron Ltd Lumans Land, Clifton Junction, Swinton Manchester, England.	An electric Primary Cell.
147951	06-7-78	Marston Palmer Ltd, Wobaston Road Forthhouses, Wolverhampton WV 10 66J, England.	Electrical connection.
153353	07-1-80	Do.	Impressed current cathodic protection anode assembly.
156679	03-8-82	Metallurgical & Engineering Consultants (India) Ltd Doranha, Ranchi-834002 Bihar, India.	A fuse failure no volt monitoring & protection device for a 3-phase electrical apparatus.
154934	15-3-82	Minnesota Mining & Manufacturing Company.	An electrical connection for non-prestripped wires.
149090	14-4-78	Mitsubishi Denki Kabushiki Kaisha, 2-3 Marunouchi, 2, chome, Chiyoda-ku-Tokyo, Japan.	Device for operating circuit breaker.
151443	10-1-80	Mitsubishi Denki Kabushiki Kaisha.	Lightning arrester device for power transmission line.

1	2	3	4
151774	07-3-79	Mitsubishi Denki Kabushiki Kaisha.	Lightening resistive device in aerial power transmission system.
154796	20-8-81	Mitsubishi Denki Kabushiki Kaisha	Phase discriminator circuit.
156487	15-7-82	Mitsubishi Denki Kabushiki Kaisha 2-3, Marunouchi, 2-chome, Chiyoda-ku, Tokyo, Japan.	Terminal assembly for circuit interrupter.
157892	15-7-82	Do.	Terminal assembly for circuit interrupter.
157937	06-7-83	Mitsubishi Denki Kabushiki Kaisha,	Lighting arrester with leakage current detection.
156318	13-7-82	Northern Engineering Industries Plc., NE1 House, Regent Centre, New Castle upon Tyne, NE3 35B, England.	Circuit breaker
158321	26-8-83	Permidec Electrode Ltd., 1159, Ishikawa, Fujisawashi, Kanagawa-ken, Japan.	Electrolytic electrodes having high durability & process for production of same.
162848	13-12-83	Raychem Limited Rolls House, 7 Rolls Bully Fether Lane, London EC4 INL, England.	A fibre optic cable assembly installed with high voltage equipment.
163306	17-10-85	Societe Nationale 37 Bld de Montno-reney, 75016 Paris France.	An apparatus for checking the electric continuity of a device made from electrically conducting material by impedance measurement.
161939	21-4-86	Union Carbide India Ltd., 1, Middleton Street, Calcutta 700 071 India.	Improved zinc cans for dry batteries method of manufacturing the same & dry batteries made of such improved cans.

## MECH. &amp; GEN LIST NO. II.

## COMMERCIAL WORKING OF PATENTED INVENTIONS

The following Patents in the field of mechanical & General Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1990 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the invention
1	2	3	4
150842	07-4-79	Imperial Chemical Industries PLC Imperial Chemical House Millbank London SW1P 3 JP England.	Process & apparatus for spraying liquid.
159392	26-10-81	Do.	Containers for use in electrostatic spraying
159465	10-9-79	ICI PLC	Containers for use in electrostatic spraying of liquids.
159466	10-9-79	ICI PLC	Holders for containers for use in electrostatic spraying of liquids.
139987	18-7-83	Do.	An electrostatic Pump for pumping liquids.
163432	09-8-85	Do.	A process for the production of a coated particulate filler.
146976	02-7-77	Indian Explosives Ltd. , 34 Chowringhee, Calcutta-700071 West Bengal India.	Apparatus for electrostatic spraying of pesticides
147487	29-6-78	Indian Explosives Limited 34 Chowringhee, Calcutta-700071 West Bengal, India.	A self sealing pack & a method of making the same.
155533	11-3-77	ICI India Limited.	Multiple fuscigniter.

1	2	3	4
163800	16-10-86	Indian Jute Industries 17, Taratala Road Calcutta-700085 India.	A process of manufacturing the fire-rot-mildew resistant carpet backing fabric (secondary) by treatment at the batching stage.
156722	05-3-82	Injectall Limited Sendiron House Benchief Sheffield 57 ZRA, England.	Metal pouring apparatus.
161463	23-11-83	Injectall Limited Sheffield 572 RA England Abbey House 453 Abbeylane.	Apparatus for introducing substances into liquids e.g. metal melts.
162550	23-11-87	Injectall Limited.	A wire injection obturater.
165377	01-8-85	Inter-Steel Technology Inc. 3041 Shallowood Lane Matthews, North Carolina 28108 U.S.A.	Method for continuous steel making in electric furnaces.
157617	24-12-82	The Jacobs Manufacturing 22 East Dudleytown Road Bloomfield Connecticut-06002 U.S.A.	Engine retarding system.
164084	30-5-85	The Jacobs Manufacturing Company 22 East Dudleytown Road Bloomfield Connecticut-06002, U.S.A.	An engine retarding system of a gas compressing release type.
160056	18-6-84	John Wych & Brother Ltd., Huntercombe Lane South Tapl Maidenhead, Berkshire SL 6 OPH England.	A process for the preparation of a food product.
163335	12-2-86	Kabel Und Metallwerke Gutehoffnungshutte Kloster Strate Osnabruck 4500 West Germany.	Continuous Casting of ingots.
163575	20-4-85	Kabel Und Metallwerke Gutehoffnungshutte.	Process for producing protective layer resistant to wear & tear on the shape giving surfaces of a continuous casting ingot mould & an ingotmould so produced.
163964	21-6-85	Kanegafuchi Kagaku Kogyo Kabus &iki Kaisha Z-4 Nakanoshima 3 chome, Kita-ku, Osaka-Shi, Japan.	Glow discharge decomposition apparatus.
149859	07-12-78	Klochner CRA Patent GmbH, Kleenerstrasse 29, 4100 Duisburg 1, West Germany.	Method of prove ment of the heat balance in the refining of steel.
150145	04-5-78	Klockner CRA Patent GmbH, a Germany Company, Klecknerstrabe 29, 4100 Disburg 1.	An improved process for the production of steel in a convertor using higher proportions of solid scrap.
161730	07-8-85	Komori Corporation 11-1 Azumabash, 3, Chome Sumioa Ku, Tokyo Japan.	Intaglio printing machine.
165423	11-7-86	Koninklijke Embalage Industrie Van Leer B-V, Amsterdamseweg 206, 1182, H2 Amstelveen the Netherlands.	Process & device for connection together by heated tool butt-welding a cylindrical drum body obtained by extension lid.
164048	11-7-86	Koninklijke Emballage Industrie Van Leer B-V, Amsterdamseweg 206, 1182 HL, Amstelveen, the Netherlands.	Device for the production of fusc
160328	21-8-84	Krauss-Maffei Aktiengescd of Krauss Mefferstra Be, 2, D 8000 Munchen 50, Germany.	Method & apparatus for pneumatically evacuating centrifuges.
164349	28-11-86	Kuiken N V Randweg 31, 8304 As Ennemeloord the Netherlands.	Fusc gear transmission for axcs intersecting or crossing each other.
163968	09-7-86	Les Enterprises Tritton 10775 Racette Avenue Montreal North, Quebec Canada H1G 5H5	Improvements in er relating to a seal suitable for locking containers e.g. boxes trucks, Zippered containers & the like.
65422	16-7-86	LES Enterprises Tritton Ltee 10,725 Racette Avenue Montreal North Quebec Canada H1G5H5	Shackle tppc seal.

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161344	06-12-83	L. Mitergue Corporation P. O. Box 11318 544 Woodell Road Lynchburg, Virginia U.S.A.	A Valve operator with an improved de-clutch mechanism.
162303	24-3-84	Luigi Granieri 33 Biskin 62,200 Pantalla (Province of Parvigia) Italy.	A building structure.
143463	11-8-1973	Lydall Ins 1, Colonial Road, Manchester Connecticut-06040 U.S.A.	A process of forming high density insulating board.
153930	02-05-1980	Man Guteheffnungs Huette A.G. Alleestrasse 3, 3000 Hanover Germany	Rotary Machines.
154116	20-6-1981	Man Guteheffnungs Huette AG.	A compressor especially a single stage or multi-stage screw compressor with means for regulating the quantity of flow of the compressed medium
160118	12-3-1984	Man Guteheffnungs Huette AG-Boettach-440100, 8500 Nurnburg 44, West Germany.	A mass convey or for vertical or steep delivery of bulk material.
154626	01-7-1981	Mortisa Cenanovic 2567 Annelyn Covert Mississauga, Ontario Canada-L5C 227.	Method for preparing in metal pipe by expending it by controlled amount at a predetermined location therealong & a device for carrying out said method.
148950	19-12-1977	Martin Engineering Co Route 34 Neponset Illinois 61345, U.S.A.	Conveyor belt cleaver blade mounting arrangement.
149740	16-2-1979	Martin Engineering Co.	Shut board installation for conveyors.
164115	01-8-1985	Messerschmitt Bolkow Blach D-8000 Munich 80 Germany.	A Vibration isolator.
161919	17-2-1986	Metallurgical & Engineering Consultants (India) Ltd.	Coke oven foul gas offtake system.
163329	17-2-1983	Metallurgical & Engineering Consultants (India) Ltd, Doronda, Ranchi-834002, Bihar India.	Improved coke oven door for by-product recovery coke ovens.
162599	05-6-1986	Metallurgical & Engineering Consultants (India) Ltd Deranda Ranchi-834002 Bihar	Improved coke oven door & coke ovens having such improved doors.
163969	28-9-1987	Do	Electric meter-driven vehicle.
165001	20-6-1986	Metallurgical & Engineering Consultants (India) Ltd.	Plant for clearing deposits from the gas side of vertical type primary gas cooler for coke over gas.
165070	31-3-1987	Metallurgical & Engineering Consultants (India) Ltd.	System for electricing leakage of water from blast furnace tayer(s).
165570	10-4-1986	Microvision Corporation 760 East E.L. Camino Real Suite 200 Mountain View California 94040 U.S.A.	Method & apparatus for producing a recorded videotape having a processed video signal so as to prohibit the making of acceptable video tape recordings thereof.
161128	01-6-1986	Midrex International B V Wilfredstrasse 12 Zurich 8032 Switzerland.	Apparatus for generating a reducing ironoxide
156855	07-04-1982	Mines & Railways Equipment Mfg Co (P) Ltd Gondwana Place, Kankar Road, Dhanbad-826001 Bihar	Continuous Carboniser for the production of domestic coke from coal.
150663	12-4-1979	Minnesota Mining & Manufacturing Company 3M Center Saint Paul Minnesota 55144, U.S.A	Double acting latch for linged plastic box.
154964	17-8-1981	Minnesota Mining & Manufacturing Company	Abrasive article & method of making the same.
156518	28-2-1983	Do.	An improved connection for attachment of droplines to communication service liner.

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160817	01-7-1983	Minnesota Mining & Manufacturing Company 3 M Center, Saint Paul Minnesota-55144 U.S.A.	Method of making a substrate with a low surface energy layer.
160818	01-7-1983	Minnesota Mining & Manufacturing Company	Method of making a substrate with a composite layer.
160847	01-7-1983	Do.	Method of making a magnetic recording medium with covering protecting the face of the magnetizable coating of a said medium.
161933	01-9-1983	Do.	A method of preparing an improved retroreflective sheeting.
163474	13-8-1985	Mitsuba Electric Manufacturing Co. Ltd 2681 Hirasawacho 1-chome, Kiryu, Gunma, Japan	Revolving electric machine.
165823	01-8-1986	Mitsuba Electric Manufacturing Co. Ltd., 2681, Hiresawacho 1 chame, Kiryu, Gunma, Japan.	Commutator & process for manufacturing the same.
148170	27-7-1978	Metallurgical Development Co Trust Corporation of Bahamer Building, West Bay Street Nassau Bchamas.	Improvement in or relating to tyres for blast furnaces and furnaces having such tyres installed therein.
165866	18-3-1986	Mitsuba Electric Manufacturing Co. Ltd.	Wiper driving unit.
152320	09-3-1979	Mitsubishi Donki Kabushiki Kaisha 2, 3 Maruneuchi 2-chome Chiyoda-ku, Tokyo Japan	Lightening arrester device for power transmission line.
162743	31-3-1984	Mitsubishi Jukogyo Kabushiki kaisha 5-1 Maruno- uchi 2-chome, chiyoda-ku Tokyo Japan & Mitsubishi Mining & Cement Co., Ltd. 5-1 Maruneuchi-1- chome chiyoda-ku, Tokyo Japan.	Cyclone for separating fine powders from a gas.
154807	12-1-1982	Do	Cyclone separator.
165229	21-5-1986	Mutex Corporation P.O.Box 2003 3000 Northwood Parking 160 Nerinx Georgia 30091 U.S.A.	An improved diagnostic device for analyte assay.
152513	6-12-1979	A/S N. Fess Electric 69 Slangerupgade 3400 Hillerod Denmark.	Apparatus for the quantitative determination of fat in an aqueous fat emulsion sample.
161254	16-1-1984	Nippon Clean Engine Resea 205-3 Kitayashioch Kanazawa-shi Ishikawa-Kon Japan.	A two stroke internal combustion engine.
148347	26-12-1977	Norther Engineering Industries Plc NES House, Regent Centre, Newcastle Upon Tyre NE 33 5B England.	Panel & Structure made up of such panels
162386	11-7-1985	Oliver Rubber Company 1200 65th Street Oakland California 94608, U.S.A.	Improved tire envelope sealing apparatus for re- capping tires.
156598	24-5-1982	Onera & Societe Nationa 37 Boulevard D Mont- morency Paris 75016 France.	Blade end for rotary wing of an aircraft & rotary wing provided with such blade ends.
163195	11-1-1985	Ostermann Metallwerke & Co. Blumenweg 2 4-D-24 Kolin 30 D-5000 Germany.	Driving arrangement for water craft.
148622	20-4-1978	Otto India Private Ltd. 9 Camac Street, Calcutta- 700017 West Bengal India.	A method for taking in & taking away gases leaking during coking & device therefor.
164669	24-3-1988	Otto India Pvt. Ltd.	A flexible door for coke ovens.
164732	19-1-1987	Otto India Pvt. Ltd.	A novel system for achieving alignment & inter- locking between pusher car & coke guide car on pusher & coke sides respectively of an oven cham- ber of a coke oven.
165705	14-8-1986	Otto India Pvt. Ltd.	Coke quenching car.
163702	29-3-1985	Ovonic Battery Company 1826, Northwood Drive Troy Michigan-48084 U.S.A.	Hydrogen storage materials and methods of sizing and preparing the same for electro chemical appli- cations.

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162402	24-11-1983	Palitex Projeci Company GmbH Weeserweg 8, 4150 Krefeld 1, West Germany.	A method of forming a spliced multiply yarn.
164694	28-2-1986	Paques B.V. T-de Poersstraat 11, 8561 EL BALK, The Netherlands.	Device for the anaerobic purification of waste water.
164788	24-7-1985	Paques B.V. T-de Boexstreet 11, 8561 EL BALK The Netherlands.	Anaerobic purification equipment for waste water.
157067	9-3-1981	Paul Legueu 85 Av De Mazy Pannichet 44380 France.	Light armoured reconnaissance & petrol vehicle.
157320		Paul Legueu 85 Ay-de Mary-44380 Pannichet, France.	A cross country automobile vehicle of the kind suitable for towing & for hoisting loads.
164985	17-6-1987	Peter M Schwolsky 4101 Cathedral Avenue NW Washington DC 20016, U.S.A.	Contraceptive device employing electric fones.
165109	26-7-1985	Philip Morris Products Inc. 3601 Commerce Road, Virginia-23234, U.S.A.	Method & apparatus for manufacturing cigarettes.
165020	05-12-1985	Plant Genetics Inc. 1930 Fifth 57 Davies California 95616 U.S.A.	Hydrogel Capsules Coated with controlled release membranes & method of producing the same.
161252	09-11-1983	PLM AB Djaknegatan 16, S-201 80 Malme, Sweden.	Method & device for formation of a preform of thermoplastic material.
157532	21-10-1982	Priestman Brothers Ltd. Hedon Road, Hull HU9 5PA England.	Earth moving machine.
164724	03-9-1985	Profeel S.R.L. Via Chiesu Nuova 22 Italy.	Pneumatic action accessory holding device part particularly for industrial sewing machines.
165572	03-9-1985	Profeel S.R.L. Sora (F 12), Via chiesa Nuova-22 Italy.	Device for aligning contours of two plies of material to be sewn together for industrial sewing machine.
165986	08-8-1986	Purelater Products Inc. 970 New Brunswick AV Railway, New Jersey 07065 U.S.A.	A fluid filter.
156855	07-4-1982	Pushpanjal Coal & Coke (P) Ltd, Singh Kothi, G.T. Road, Aurangabad, Bihar, India.	Continuous carboniser for the production of domestic coke from coal.
166424	23-10-1986	Research Coitrel Inc. 1400 Route, 206 North Bedminster, New Jersey 07921, U.S.A.	Crossflow cooling tower splash bar.
164996	14-3-1986	Rimrak Corporation 1700, Rimarock Road Columbus Ohio 43219, U.S.A.	Apparatus for moving a fluid emission head through mechanical fluid application cycles.
166122	20-5-1986	R.J. Reynolds Tobacco Comp of 403 North Main Street, Winston-Salem North Carehna 27102 U.S.A.	Cigarettes type smoking article.
154639	29-2-1980	Robert Henry Abplanalp 10 Hewett Avenue, Bronxville Westchester County New York, U.S.A.	Method & apparatus for the mass production of a gasket bearing aerosol mounting cup.
155677	29-2-1980	Robert Henery Abplanalp 10 Hewett Avenue Bronxville, Westchester County, New York U.S.A.	Gasketed mounting cups for aerosol dispensing conta.
161300	05-4-1983	Robert Henry Abplanalp 10 Hewett Avenue Bronxville Westale Ste Z New York U.S.A.	Dispensing cap for use with pressurized containers.
163573	07-1-1985	Roberto Perlini 37047 Sen Bonitacid Locana, Italy.	Oscodynamic Control device for steering the pivotable wheels of vehicles provided with straight travelling stabilizer.
162746	28-9-1984	Rolf Mulles Friedenstrasse 68, Kaiserslentern 6750 Germany.	Data entering device particularly for typewriters & terminals.
156541	03-07-1981	Royal Ordnance Plc. Griffin House, 5th Strand, London WC Z N 5 BB England.	Firearms with rechargeable magazine.
156542	06-7-1981	Royal Ordnance Plc.	Training round of ammunition in-corporating a consumable bullet for use in an automatic firearm.

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156780	03-7-1981	Royal Ordnance Plc.	Firearms with rotary magazines.
157162	03-7-1981	Royal Ordnance PLC	A fire arm.
164202	13-6-1985	Royal Ordnance Plc 5 Gritton House The Strand, London WC2N 5 BB, England.	Riot Control Weapon.
162118	30-4-1985	Rudy Melvin Bewers 11385 Nayshan Court Cypress California 90630 U.S.A.	Rod coupling for oil well sucker rods & the like.
153603	31-5-1980	Ruhrgas Ag Huttropsstrasse 604300 Essen 1, Federal Republic of Germany.	A pre-mixing burner.
163320	25-10-1984	Schlumberger Technology Corporation 500 Gulf Freeway Houston, Texas 77023 U.S.A.	Annular electrical contact apparatus for use in drill stem testing.
147896	19-8-1977	Schubert & Salzer Maschinenfabrik Aktiengesellschaft Friedrich Ebert Strasse 84, 8070 Ingolstadt Germany.	Apparatus for separating contaminant from fibrous material in particular from cotton fibrous material.
151024	16-11-1978	Schubert & Salzer Maschinenfabrik Aktiengesellschaft.	Apparatus for making a join in a bound yarn.
152097	28-4-1979	Schubert & Salzer Maschinenfabrik Aktiengesellschaft.	Apparatus for controlling the bobbin drive of a speed frame.
152163	16-1-1980	Schubert & Salzer Maschinenfabrik Aktiengesellschaft.	Apparatus for producing a bound yarn.
152803	14-10-1980	Schubert & Salzer Maschinenfabrik Aktiengesellschaft.	A device for extracting impurities from fibre material in particular cotton.
152879	23-7-1980	Schubert & Salzer Maschinenfabrik Aktiengesellschaft.	Method & Apparatus for producing a bound thread incorporating therein at least one thread join.
158523	13-8-1982	The Secretary of State for Defence Great Britain & Northern Ireland of White hall, London SW1A 2 HB, England.	A wear reducing projectile with forward and rearward end.
159479	27-6-1983	The Secretary of State Do.	Liquid crystal devices.
164843	11-11-1985	The Secretary of State for Defence White hall, London SW1A, 2HB England.	A parachute assembly.
165030	23-7-1984	Shin-Etsu Chemical Co. Ltd, 6-1 Otemachi 2-chome, Chiyoda-ku, Tokyo Japan.	A composite body for sustainedly releasing vapour of a vaporizable active substance & a method for the preparation thereof.
165529	26-12-1983	The Secretary of State for Trade & Industry 1 Victoria Street, London SW1H OET, England.	A combined spring & damper essentially for vehicle suspension.
165837	05-11-1985	The Secretary of State for Defence Whitehall, London SE1A ZHB England.	Alignment device for use with a muzzle reference system for a mounted gun.
163435	19-6-1984	Shiroki Corporation 2 Kirihara, Che, Fujisawashi Kanagawa-ken 252, Japan.	Spontaneous convection type solar heat collector.
151080	06-10-1978	Simon-Hartley Ltd. Etruria Works Stoke-on-Trent, Staffordshire, England.	Apparatus for growing micro-organising with a supply of suitable nutrient material.
164076	16-12-1985	Single Buoy Moorings Inc. 5 Route de Fribourg P.O. Box-124, CH-1723 Marly, Switzerland.	Mooring device.
157408	10-12-1979	Societe Anonyme Dite Sec. 37, Boulevard de Mont Morenay, 75016 Paris France.	Blade profile for rotary wing of an aircraft.
161500	25-9-1984	Societe Europeenne De Propulsion 3 Avenue de General de Gaulle 92500 Puteaux France.	Apparatus for digitizing an image by analysis by means of light beam.

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161335	30-9-1983	Societe Nationale Industrielle Matra 37 Boulevard De Montmorency Paris 75016, France.	Device for use as tail rotor arrangement for rotary aircraft.
165702	04-9-1985	Spie-Batignolles, 33 Quai De Jion Bouton Puteaux 92814, France.	Process & device for installing a pipeline in an underwater.
162514	26-6-1984	SPX Corporation 100 Terrace Plaza Muskegon Michigan 49443 U.S.A.	Solenoid valve.
162593	26-6-1984	SPX Corporation	Solenoid valve.
162905	17-6-1985	SPX Corporation 100 Terrace Plaza Muskegon, Michigan-49443, U.S.A.	Solenoid valve.
154686	08-9-1980	Sterling Armament Co. Ltd. Sterling Works, Dagenham Essex England.	Improvements in and relating to hand gum.
162211	29-3-1984	Sree Subrata Kumar Ghosh 32 G.B.-Mondal Road, P.O., Jhapur-Newalgung West Bengal.	The duck like vehicle or craft.
163688	20-4-1986	The Textile & Allied Kalabhavan Premises Baroda-390001 India.	Improved apparatus for separating trash from light.
164578	09-3-1987	Timex Corporation P.O. Box 2126 Waterbury Connecticut 06720 U.S.A.	Improvements in or relating to two hand quartz watches.
158735	23-12-1982	Unilever Plc Unilever House Blackfriars, London EC4, England.	Tea extraction process.
154822	16-6-1981	"Union Carbide Corp".	Apparatus for detecting solidification in a mixed phase container.
152818	14-3-1980	Unisearch Limited 221 Anzac Parade, Kensington NSW 2033, Australia.	Method & means for distinguishing gemstones.
161080	01-10-1984	Unisearch Limited 221-227 Anzac Parade, Kensington New South Wales, Commonwealth of Australia.	A method of producing a shaped article e.g. bricks, panels & like moulded extruded articles made for constructing buildings.
151737	03-8-1979	United Technologies Corporation 1 Financial Plaza, Hartford, Connecticut-06101, U.S.A.	A control system for a wind turbine having a wind driven rotor.
163804	21-6-1985	United Technologies 1, Financial Plaza, Corp., Hartford, Connecticut 06101, U.S.A.	An abrasive surfaced article & method of preparing the same.
164330	17-11-1986	Do.	A variable speed wind turbine.
164700	17-11-1986	United Technologies Corporation 1, Financial Plaza Hartford, Connecticut-06101 U.S.A.	Apparatus for controlling a variable speed wind turbine generator at improved efficiencies.
148762	08-8-1977	USS Engineers & Consultants Inc. 600 Grant Street, Pittsburgh State of Pennsylvania, U.S.A.	A nozzle for preventing alumina build-up during continuous casting of aluminium-killed steel.
164609	—	Valmet Paper Machinery Inc. P.O. Box 132 SF-00131 Helsinki Finland.	A vat machine.
163472	20-4-1985	Vianini Industria Spa 33 Via Della Ferratella Rome 00184 Italy.	Pipe of reinforced conventional concrete having an evenly distributed steel wire reinforcement & method for its manufacture.
163093	03-05-1984	Wallace Edwards P.O. Box 1265 Station B Weston Ontario M9G 2R1 Canada.	Method of manufacturing a printing system suitable for use in printing on a sheet member in a realistic image of an original.
164812	28-2-1986	Wallace Edwards P.O. Box 1265, Station B Weston Ontario M9G 2 Rg. Canada	Method of manufacturing a printing system suitable in use in printing on a sheet member a realistic reproduction of a coloured original.
163667	17-5-1985	Washington University 8204 Brentwood, Industrial Drive St. Louis, Missouri-63144, U.S.A.	Method & apparatus for coating or encapsulating individual mass components of core material having the form of solid particles aggregates formed by granulation of liquid droplets.

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165885	23-2-87	Washington University Technology Associates Inc-8204 Brentwood, Industrial Drive, St. Louis, Missouri-63144 U.S.A.	A method for granulation of a powdery material & Apparatus for carrying out said process.
150301	18-6-79	Dr. Werner Freyberg Chemische Fabrik Delifit Machf Bergstrasse 6941, Landenbach, Germany.	Applicator means for pest control agents.
156296	18-6-79	Dr. Werner Freyberg Chemische Fabrik Delifit Machf Bergstrasse, 6941, Landenbach, Federal Republic of Germany.	Applicator apparatus for pest control agents.
162946	30-9-84	Wyler AG Wasserwaagen Und IM Holderli Winterthurn Switzerland.	Air bearing body.
162653	10-5-84	Yamato Iron Works Co Ltd., 33-35, 8, Chome Nishiegi Arakawa-Ku, Tokyo Japan.	A method of manufacturing a drum with a press in flange for drum or like container.
161855	28-2-85	Zaklady Przedkoji Urzadze U1 Jasionowa 15, Katowice, Poland.	Flow mixer.
163323	14-12-84	Zaklady Przedkoji Urzadze U1 Bielska 44 Pezozyna, Poland.	A method of producing a suspension of fly ash in water & on installation.
151363	03-4-79	Aklibolaget Iro, Vistaholm, S-52301 Ulricehamn Sweden.	A thread storage & supply device for textile machines.
157843	16-6-82	Antonic Di Settembrini Le Lubries, 84480 Bonnianx, France.	Method & apparatus for the production of containers from plastic material.
159976	16-9-82	A P Basson Limited St Joseph's close, Hove, East Sussex, England.	Improvements in or relating to telephone transducers.
156726	04-8-82	The Babcock & Wilcox Company 1010 Common Street, New Orleans Louisiana 70160 U.S.A.	A brake mechanism in & for a control drive mechanism.
156960	16-12-82	The Babcock & Wilcox Company 1010 Common Street New Orleans, Louisiana-70160, U.S.A.	Loud control device for energy converters.
157178	26-3-83	The Babcock & Wilcox Company	Program timer control device.
157215	16-12-82	The Babcock & Wilcox Company	Load control for energy converters.
157756	08-12-82	The Babcock & Wilcox Company.	System for automatic & continuous determination of the efficiency of a fossil fuel-fired vapour generator.
157898	09-3-83	The Babcock & Wilcox Company.	System for providing plant operator displays of dynamic plant data.
157930	09-3-83	The Babcock & Wilcox Company.	Transfer mechanism for an actuator having a relating control shaft.
158214	18-4-83	The Babcock & Wilcox Company	Temperature control system for reaction for a fluid reaction.
158216	01-6-83	The Babcock & Wilcox Company.	Device for determining the concentration of oxygen & combustible within a gas.
158240	21-2-83	The Babcock & Wilcox Company.	An adoptive control device for a process plant.
158421	16-12-82	The Babcock & Wilcox Company.	Load Control for energy converters.
158595	16-7-82	Do.	Latching mechanism for circuit board module.
158600	07-10-82	Do.	Force transducer.

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158819	13-7-83	The Babcock & Wilcox Company.	A function generator for extracting the square-root of an incoming signals.
158886	18-3-83	Do	Method & apparatus for break point chlorination of waste water.
158909	26-3-83	Do.	Temperature actuated air flow control device & gas sampler.
159295	04-5-83	Do.	A steam power generating system.
159329	03-8-83	Do.	A system for providing character vents to a display dc.
159330	23-11-83	The Babcock & Wilcox Company, 1010 Common Street, New Orleans, Louisiana 70160, U.S.A.	Apparatus for determining the degree of cooking in a sulphite digester for delignification.
160086	03-8-83	Do.	A method of generating steam.
160113	27-10-83	Do.	An apparatus for reducing losses in combustion system producing glasses.
160690	27-1-83	Do.	Apparatus to control surge in a centrifugal compressor.
160712	22-2-84	Do.	A pneumatic servo assembly for an electropneumatic closed loop control system.
160808	04-5-83	Do.	Arrangement for controlling the temperature of a reactor e.g. olefin.
160811	01-6-83	Do.	Dedicator correlator.
160812	01-6-83	Do.	An apparatus for controlling the blending of a rich stream.
160819	02-7-83	Do.	On line coal analyzer.
160925	02-12-83	Do.	A system for controlling the bed level of a fluidized bed.
161005	01-3-83	Do.	Boiler loading system for a power plant.
161033	30-6-83	Do.	Colorimeter.
161034	30-6-83	Do.	Combustion device having heat recovery catalytic heat exchanger.
161229	31-12-84	Do.	Enthalpy measuring equipment for measuring the enthalpy.
161250	30-3-85	Do.	A variable speed electro pneumatic converter.
161475	05-9-83	Do.	An apparatus for controlling moisture content in a prilled product & method of producing a prilled product with a predetermined moisture content.
161480	20-3-85	Do.	High temperature sample probe with filter for a gas analyser.
161514	21-9-83	Do.	Carbon monoxide detector.
161516	12-12-83	Do.	Apparatus for automatically setting the value of a reference signal.
161714	05-3-84	Do.	An arrangement for the optimized control of chilled water temperature.

161755	05-3-84	The Babcock & Wilcox Company, 1010 Common Street, New Orleans, Louisiana 70160, U.S.A.	A distributed system for optimizing the performance of a plurality of multistage steam turbine.
161771	01-9-83	Do.	A flame monitor for a burner.
161796	03-1-84	Do.	A system for controlling the operation of a casting tower.
161857	11-3-86	Do.	A system for maximizing the main steam temperature in a power generation boiler/turbine installation.
161899	31-12-84	Do.	Heat exchanger performance monitor.
161903	26-2-85	Do.	Linear hall effect oxygen sensor.
161904	01-3-85	Do.	Improvements in or relating to force transducers.
161942	01-9-83	Do.	Three male analog controller for regulating a signal.
161968	16-2-85	Do.	Filter cleaning system for capacity monitor.
162006	01-1-85	Do.	Cooling tower monitor.
162028	20-8-85	Do.	Device for venting an enclosure such as for an industrial control or housing.
162076	31-5-85	Do.	Improved two speedmeter control system.
162104	29-10-83	Do.	Apparatus for determining the heat transfer effectiveness of a reactor.
162124	14-11-83	Do.	A communication system connecting a plurality of remote stations.
162267	06-7-84	Do.	Integrated control system for a compressor & chilled water system having same.
162316	12-10-86	Do.	A method of calibrating a line-arising circuit.
162365	17-8-84	Do.	Method and apparatus for protecting an optical surface of an optical element.
162375	30-3-85	Do.	An apparatus for obtaining a correction value for actual power usage during a measuring cycle period.
162557	02-4-85	Do.	Adaptive gain compressor surge control system.
162594	29-6-84	Do.	Compressor surge control system.
162600	06-7-84	Do.	A chilled water system having a centrifugal compressor & an integrated control system.
162714	16-8-84	Do.	A method of producing steam or vapour continuously in a boiler.
162793	27-6-84	Do.	Safety system for coal pulverizers.
162845	29-10-83	Do.	A system for determining the performance parameters of an energy convertor.
162885	17-9-84	Do.	An apparatus for controlling a fuel-air mixture for efficient combustion.
162902	23-2-85	Do.	Apparatus for determining the deflection of a pressure transfer diaphragm.

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162906	22-8-85	Do.	Improvements in or relating to pressure transducers.
162945	15-2-84	Do.	Temperature actuated flow control device.
163066	28-4-86	Do.	Self zeroing pressure transmitter with automatic pressure manifold.
163407	30-4-85	Do.	Shut off/equalizing valve with moulded seals.
163561	17-9-84	Do.	Method of producing steam or vapour continuously in a boiler.
163695	12-2-85	Do.	High temperature pressure transducer.
163745	31-5-85	Do.	Position transmitter for a pneumatic or electro-pneumatic converter.
163892	06-3-85	Do.	A gas analyzer arrangement for analyzing the presence and/or quantity of a gas.
164045	31-5-85	Do.	Improvement in or relating to electro-pneumatic converters.
164046	31-5-1985	The Babcock & Wilcox Company, 1010 Common Street, New Orleans Louisiana 70160 U.S.A.	Pneumatic positioner.
164114	31-7-1985	Do.	Flame quantity monitor.
164324	28-8-1985	Do.	Improvements in or relating to apparatus for measuring the mass flow rate of solids & air.
164445	23-9-1985	Do.	A system or device for controlling combustion temperature in a combustion heater.
164868	14-11-1986	Do.	Electro mechanical intergrator.
164915	21-8-1985	Do.	Sensor for the vertex shedding flowmeter.
164947	23-12-1985	Do.	An apparatus for measuring mass flow rate of a fluid flow.
165010	17-9-1986	Do.	Improvements in or relating to microbend sensors.
165087	14-11-1986	Do.	Mounting bracket assembly for mounting housing module in control panel.
165210	17-9-1986	Do.	Apparatus of processing an optically generated signal to form a two wire current signal.
165710	14-11-1986	Do.	A filter assembly for a gas sampling system.
161153	21-5-1984	Bergwerksoerband GmbH Franz-Fischer Weg 61, 4300 Essen 13, West Germany.	Process & device for cleaning of gas mixtures.
161558	13-10-1983	Bernard Zimmern Vantase Point Condominium 6 New St, East Norwalk CT 06855, U.S.A.	An economiser device for a refrigerating machine, a heat pump or the like.
165454	18-4-1986	Byuns Yeo 616-5 Daemyung-Dang Nem-ku-Daugu Gi Korea.	Air Ventilator.
156855	07-4-1982	Central Mine Planning & Design Inst. Ltd. Gondwana Place Kanke Road, Ranchi Telephone Exch. Road Dhanbad-826001, Bihar.	Continuous carboniser for the production of domestic coke from coal.
165923	01-3-1989	Cantral Mine Planning & Design Institute Ltd, An Indian Company in corporated under the Companies Act, 1956 of Gondwana Place, Kanke Road, Ranchi-834008.	Improved beehive oven chimney.

1	2	3	4
165534	20-3-1987	Christian A Witke of Bartenstrasse 17D-7109 Jagsthausen Federal Republic of Germany.	A low air resistance illuminated character shaped element.
163837	05-8-1985	Clouth Gummiwerke AG Neither Strasse 92-116, 5000 Köln 60, West Germany.	Rasilient matting for use as a base or underlay of ballast bed.
164039	10-12-1985	Clouth Gummiwerke AG. Do.	Mat of Resilient material.
163076	10-9-1984	Contra Shear Holding Ltd. of 31 Ruskin Street Parnell, Aarckland, New Zealand.	Rotary screen.
162153	22-12-1983	Copeland Corporation Combell, Road Sidney, Ohio-45365, U.S.A.	Scroll type machine.
162154	13-1-1984	Copelonel Corporation Do.	An orbiting scroll compressor.
162861	12-1-1984	Do.	A motor compressor.
155066	24-7-1981	Crane Packing Limited, Crossbow House, Liver Poul Road, England.	Mechanical face seal in corporating bellows unit.
157450	02-3-1983	Crane Packing Limited Crossbow House, Liverpoal Road Slough, England.	Seal for producing a liquid tight closure between a rotary component & a portion separating two chambers.
164736	22-1-1987	Dansk Industry syndikat A, Herlev Hovegade 15-17 Herlev 2730 Denmark.	A core setter for use in placing one or more cores in the mould impression.
165691	01-1-1987	Dansk Industry Syndikat, A Herlev Hovegade, 15-17 Herlev 2730 Denmark.	A moulding system for making mould parts.
164908	18-7-1986	David Solomon 52 Gregory Street South Cooge New South Wales Australia.	Toilet seat mechanism and the toilet seat assembly having the same.
149503	21-3-1978	Davy-Loewy Limited Prinse of Wales Road Shettfield, 59 4EX Yorkshire, England.	Manipulator for supporting & manipulating workpiece.
163736	25-3-1986	Dietmar Boenisch Emmi-Welter-strasse 8 D-5100, Aacher, FRG.	Method of & apparatus for manufacturing foundry molds.
158142	15-2-1983	Dr. C. Otto X Comp GmbH Christstrasse 9, 4630 Bochum West Germany.	A temperature measuring means for coke oven chambers walls.
161043	14-9-1983	Dr. C. Otto Comp GmbH	Shaft cooler for the dry quenching of coke.
150303	30-11-1979	Eastcind Cartons Sth Miln Telephone Exchange Road Dhanbad-826001 Bihar, India.	A battery of improved beehive coke ovens.
156966	19-2-1983	E Fonseca 17 Hungerford Street Calcutta-700017, India.	Clamp means suitable for use in removable mortising/jointing of sections.
159035	02-6-1983	Energy Froide Internation 36 Avenue krieg 1208 Geneve, Switzerland.	Alighting protector assembly.
164994	12-3-1986	Establishments Morel Atel Favierts 28170 Chatauneuf Thymerais France.	A plastic sleeve for protecting splices of electric cables or telephone cables & a method of making said sleeve.
164901	10-2-1986	Flavourtech Pty. Ltd. 90 Higgings Ploss & Co. Banner Avenue Griffith NSW 2680 Australia.	Counter current contracting device.
166430	20-11-1986	Franz Welz Internationale, A-5021 Salzburg Ernest-Thun-Strabe, 8 Austria.	Transportable refrigerating container.
165649	1-1-1986	Fukuda Denshi Co. Ltd, 39-4-Hango 3-chome, Bunkyo-ku, Tokyo-113 Japan.	Electrode securement sheet.
165650	01-1-1986	Fukuda Denshi Co. Ltd. 39-u Hongo 3-Chome, Bunkyo-ku, Tokyo 113, Japan.	Electrode sicutement sheet.

1	2	3	4
143930	23-11-1978	George Fischer Aktiengesellschaft a Swiss Company Schafthausen Switzerland.	Multi processing apparatus with tiltable melt reservoir.
152071	20-12-1979	George Fischer. Do.	Process & device for manufacturing foundry moulds by packing granular materials.
158363	18-5-1983	Georg Fischer Aktiengesellschaft, CH-8201 Schafthausen Switzerland.	A casting device.
164331	30-1-1985	Georg Fischer Aktiengesellschaft.	A ceramic filter made from high melting ceramic materials.
164690	18-12-1985	Georg Fischer Aktiengesellschaft CH-8201 Schafthausen Switzerland.	Wall member for converter chamber.
165459	25-8-1986	Halvor Forberg, Hagabakken 2 Hegdal, N-3250 Larvik, Norway.	Machine for mixing particulate materials.
165847	27-6-1986	Halver Forberg Do.	A machine for mixing particulate material.
165209	19-8-1986	Hans Ejner Sylvest Lille Havelsevej 14, 3220 Skævinge, Denmark.	Process for the manufacture of straw briquettes.
154469	01-10-1980	Harlacher AG Garterstrasse 7, 8902 Urdorf/ZH Switzerland.	Apparatus for coating a flat printing screen on one or both sides with or photosensitive emulsion.
164599	17-11-1986	Hoerbiger Ventilwerke Akt. 23 Braunhubergasse Vienna A-1110 Austria.	A nonreturn valve.
166001	07-6-1985	Hughes Aircraft Co, 7200 Hughes Terrace P.O. Box 45066 Las Angles, California 90045-0066, U.S.A.	A gate array chip.

## CHEM. ENGG. LIST NO. II

## COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1990 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name and Address of the Patentee	Title of the Invention
1	2	3	4
165746	30-5-1986	Ametek Inc, 502-Indiana Avenue Sheboygan Wisconsin 53081 U.S.A.	Method of making halogenated and/or interhalogenated resins for disinfecting water.
164650	09-3-1983	Apacc Research Ltd, 130 Dowling Street, Dungog New South Wales, Australia.	An emulsifying preparation for use in forming emulsion of liquid hydrocarbons with water or alcohols.
164990	09-3-1983	Apacc Research Ltd, Do.	An emulsion of liquid hydrocarbons with water or alcohols.
154740	11-12-1980	Asahi Kasei Kogyo Kabushiki Kaisha of 2-5 Dojimahama, 1-Chome, Kita-ku, Osaka, Osaka, Japan.	A method for the manufacture of an alkali metal hydroxide, chlorine gas and hydrogen gas.
163653	21-2-1985	Asahi Kasei Kogyo Kabushiki Kaisha 2-6 Dojimahama 1-chome, Kita-ku, Osaka Shi, Osaka, Japan.	A method of producing a human physiologically active polypeptide having tumor necrosis factor.
165453	17-4-1986	Biotech Australia Pty Ltd. of 28 Barcod Street, Roseville, New South Wales, 2069 Australia.	A process for the preparation of new polypeptides by biosynthesis.

1	2	3	4
165029	09-10-1986	Biotechnology Australia Pty. Ltd, 28 Barcoo Street, East Roseville, New South Wales, 2069 Australia.	Process of preparing novel complexes of active substances for enhancing absorption thereof on oral administration.
165830	27-11-1987	Do.	Process for the preparation of recombinant DNA molecule.
166324	15-10-1986	Centre Sperimentale Metal of Via Di Castel Romano 00129 Roma Italy.	High solids (Carbonaceous Fuel) content coal for mixture & process of preparing same.
164869	25-11-1986	Centre Sviluppo Material SPA Via dicastel Romano-00129, Roma Italy.	Continuous process for purification of hot metal.
164870	09-12-1986	Centre Sviluppo Material of Via Di Castel Romano 00129 Roma, Italy.	A continuous process for producing hot metal with reduced impurities.
165316	04-6-1986	Centre Sviluppo Materials Spa, Via di Castel Romano 00129 Roma, Italy.	Hot metal desulphurizing and dephorizing process.
150163	28-9-1978	Chemic Linz AG St Peter. Strabe 25, A-4021 Linz.	Process for the preparation of anhydrous aluminium fluoride.
155028	10-10-1980	Chemic Linz AG.	A raw meal composition for use in production of cement & sulphuric acid & a process for preparing said composition.
165226	14-4-1986	Chugai Denki Kogya Kabush of 17/12 Nihon-bachi Kayabacho 2-chome Chuc-ku, Tokyo, Japan.	Method of preparing internal oxidized Ag-Sn alloy based electrical contact materials.
149540	26-3-1979	CPC International Inc. International Plaza, P.O. Box 8000 Englawood Cliffs, New Jersey 07632, U.S.A.	A process for producing an immobilised glucose isomerase.
165327	17-3-1986	CRA Services Limited, 55 Collings ST, Melbourne 3000 Victoria, Australia.	Process for production of metallurgical composition with lower cost.
161991	12-5-1983	De Blauwe LIER B.V.S. Gravenweg 111 3062 26 Ratterdam The Netherlands.	Process to manufacture a phosphate free detergent product for washing of textile in hard water & phosphate free detergent composition for use therein.
162344	10-5-1984	E.I. Du Pont De Nemours and Company Willing-ton Delaware U.S.A.	A method for preparing an explosive composition.
156903	26-8-1981	Imperial Chemical Industries PLC Imperial Chemical House, Millbank, London SW1P 31F, England.	A process for producing one or more carbon compounds from a carbonaceous feedstock.
159469	10-5-1983	Imperial chemical Industries PLC Imperial Chemical House, Millbank, London SW1P 3 JF, England.	A process for the preparation of a sterically stabilised aqueous polymer dispersion.
161290	20-3-1984	ICI Plc.	A two stage process & apparatus for producing hydrogen enriched gas.
161489	08-4-1985	Do.	Process & apparatus for producing ammonia.
163106	22-2-1985	Do.	A process for producing ammonia synthesis gas.
163182	11-3-1985	Do.	An explosive composition & a process for producing the same.
163233	05-3-1985	Do.	A stable polyol composition use in the manufacture of moulded polyurethane article.
164414	30-7-1985	Do.	Process for producing coating compositions.
165164	22-7-1985	Do.	A process for producing a water borne coating composition.
141324	05-5-76	Indian Explosives Limited 34, Chouringhee, Calcutta-16. West Bengal, India.	Cap sensitive dry blasting agent compositions & method of preparing the same.

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144922	12-5-1976	Indian Explosive Limited IEL House, 34 Chouringhee Road, Calcutta-700 001.	Sensitised dry blasting compositions & a method for preparing the same.
146897	14-11-1977	Indian Explosive Limited.	Method of bonding metal plates by explosives.
147983	29-6-1978	Do.	A process for the preparation of a stabilized hydroxy alkyl nitrate liquor.
150035	26-11-1979	Do.	Dry blasting explosive compositions having increased initiation sensitivity.
150613	21-1-1980	Do.	Process for the preparation of an improved sensitising liquor adapted for use with cap-sensitive small diameter slurried explosive composition.
154196	21-1-1980	Do.	Improved cap-sensitive small diameter slurried explosive compositions & method for the production thereof.
155105	12-8-1982	Do.	An improved water-in-oil emulsion explosives composition & a method of preparing the same.
157795	01-10-1983	Do.	Improved water-in-oil emulsion explosive composition sensitive to a No. 6 detonator even when prepared under low shear low speed mixing conditions & method for production of such compositions.
160798	05-7-1980	Indian Explosive Ltd., IEL House, 34 Chouringhee Road, Calcutta-700001.	Improved water-in-oil emulsion explosive compositions & method of manufacture thereof.
160982	—	IEL Ltd. IEL House, 34 Chouringhee Road, Calcutta-700001.	Novel & Safe explosive compositions suitable for use in underground coal mines.
162404	26-7-1985	IEL Limited.	Novel slurried explosive compositions & method for their manufacture.
162853	22-5-1985	IEL Ltd.	Improved water-in-oil emulsion explosive compositions & method for the manufacture thereof.
165949	24-2-1984	Engethard Corporation Manla Park CN 28 Edison New Jersey 08818 U.S.A.	A method for making a fluid catalytic cracking catalyst for cracking petroleum feedstocks.
164993	14-2-1986	George Fischer Aktiengesellschaft.	Method & apparatus for casting iron treated with magnesium.
164764	20-11-1985	Georg Fischer Aktiengesellschaft CH-8201 Schatthausen, Switzerland.	A method of producing refined metal from metal containing elemental impurities.
165388	14-2-1986	Georg Fischer Aktiengesellschaft.	Method for the production of cast iron melt treated with magnesium is a casting process.
151256	29-3-1979	INCO Ltd. 1 First Canadian place Toronto, Ontario M5X1C4 Canada.	Production of alloy granulates.
151284	24-2-1981	Indian Aluminium Company Ltd. Middleton Street Calcutta-700071.	Process for the production of low soda alumina hydrate & calcined alumina.
155694	14-10-1982	Industrie Chemie Thama GmbH & Co, Posttach 7660, 8264 Waldraiburg Germany.	Improvement in a process for the production of Guanidine Nitrate from a mixture of urea & Ammonium Nitrate.
164735	01-12-1986	Industrikontakt Ing. O Ell Kleiva 20 N-6900 Floro, Norway.	A process for recovery of oil.
165468	18-2-1987	Injectall Limited Abbey House 453, Abbey Lane Beauchief Shettfield 57 2RA England.	Method of manufacturing a metal or alloy involving injection of substances in to high temperature melts.
156860	22-6-1982	Kanegafuchi Kagaku Kogyo Kabushiki Kaisha 2,4, 3-chome, Nakanoshima, Kitu-ku, Osaka, Japan.	An improved method for production of vinyl chloride resin.

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156677	01-1-1983	Kaysersberg S.A., 54 Avenue Hoche, Paris 75008, France.	Non-woven material for medical compresses.
153197	27-11-1979	Laszio Paszuer 3906 West 33rd Avenue, Vancouver British Columbia, Canada.	Pulping of lignocellulose with aqueous methanol/catalyst mixtures.
161061	24-6-1983	The Lubrizol Corp" 29400 Lakeland Blvd. Wicktiffe, Ohio-44092, U.S.A.	Process for making a nitrogen containing ester of a carboxy containing interpolymer.
152409	05-4-1984	The Lubrizol Corpn.	Do.
			Improved lubricating Corporation having oxidation inhibition properties, improved extreme pressure properties & decreased fuel consumption properties containing novel boron containing additive composition.
162587	29-1-1985	The Lubrizol Corpn.	Do.
			Process for preparing a water dispersible reaction produced for use in lubricants cutting media.
162745	24-9-1984	The Lubrizol Corpn.	Do.
			A synergistic manganese & Copper containing composition.
163405	11-2-1985	The Lubrizol Corpn.	Do.
			A process for preparing nitrogen, phosphorus containing agents useful as ashless anti wear extreme pressure and/or lead curring agent.
163431	28-2-1983	The Lubrizol Corpn.	Do.
			Additive Composition containing aminophenol combinations useful as lubricant & fuel additives.
163700	16-2-1984	The Lubrizol Corpn.	Do.
			An improved lubricating oil composition.
163735	10-4-1985	The Lubrizol Corpn.	Do.
			A method for preparing improved sulfur based additives for lubricants functional fluids containing labile sulfur.
164211	28-1-1985	The Lubrizol Corpn. 29400 Lakeland Blvd, Wicktiffe, Ohio 44092, U.S.A.	Improved process for making substituted carboxylic acid & derivative thereof.
164722	16-6-1985	The Lubrizol Corpn.	Do.
			A process of reducing the inorganic sulfur containing acid & the low equivalent weight organic sulfonic acid content of an acid mass comprising organic sulphonating acid components & inorganic sulphonating agent acid contaminants to obtain ammonium salts of organic sulphonic acids &/ or oil soluble metal salts of the same.
164726	30-9-1985	The Lubrizol Corpn.	Do.
			Corrosion inhibiting composition & oil compositions containing said corrosion inhibiting composition having mixture of alkali metal & alkaline earth metal salts & nitrogen & boron containing composition.
164834	16-10-1985	The Lubrizol Corpn.	Do.
			A process of preparing a sulfurized composition useful as lubricant additives.
164740	4-2-1988	Lucky Ltd. 20, Yoido Dong Yongdu-ripo-Gu, Seoul 150 Republic of Korea.	A process for the preparation of pyridinoid type center compound.
152252	30-5-1979	Magnesium Elektron Ltd. Lunn's Lane, Clifton Junction Swinton, Manchester England.	A method of making magnesium alloys.
157529	25-3-1982	Magnesium Electron Ltd.	A method of making of magnesium alloy.
159054	25-6-1983	Man Gutscholtnungs Hueite AG Bahnhof Stresse 66, 4200 Oberhausen 11 West Germany.	A method for the production of synthesis gas & a reactor for carrying out of method.
162974	13-12-1984	Mannesmann AG Mannesmannstrasse 2, D 4000 Dusseldorf 1, Federal Republic of Germany.	A method of making iron powder.
165452	11-4-1986	Maftron Radgivende Ingencrfirma A/S, No. 45 Generatarvej DK 2730 Herlev Denmark.	A process for recovering chitin occurs together with or connected to proteinaceous substances.

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159321	27-5-1983	M Chtil Thern-Pricker-Str-knfeld Bockum West Germany.	A method for production of combustible gas such as coal gas & maintaining an interrupted supply thereof.
150339	21-11-1978	Metallurgical Development Co. Trust Corporation of Bahamas Building, West Bay Street, Nassau, Bahamas.	Method of smelting zinc in a blast furnace.
152128	16-5-1979	Metallurgical Development Co, Trust Corporation of Bahamas Building, West Bay Street, Nassau, Bahamas.	Pyrometallurgical smelting of an oxidic charge containing lead & copper.
162525	15-2-1985	Meyhall Chemical AG sonnenajesstrasse 18, CH-8280 Breuzlingam, Switzerland.	Process for the preparation of galactomannanrich thickener from polysaccharide containing endosperm flour.
164016	16-8-1985	Midrex International B.V. Wilfriedstrasse 12, Zurich 8032 Switzerland.	Process for reducing metallic oxides to metalised material.
164404	12-8-1986	Midrex International B.V. Wilfried Strasse 12, 8032 Zurich, Switzerland.	Method & apparatus for producing molten iron using coal.
154811	07-2-1979	Minnesota Mining & Manufacturing Company 3 M Center, Saint Paul, Minnesota-55101, U.S.A.	A method for manufacturing a hardened composition of epoxide frienyl sulfonium complex salt.
153602	27-8-1980	Mitsubishi Denki Kabushiki Kaisha, 2—3, Marunouchi 2 chome, chiyoda ku, Tokyo, Japan.	Heat resistant resin composition.
158493	02-4-1982	Mitsubishi Rayam Co. Ltd. No. 3-19, Kyobashi 2 chome, Chuo Ku, Tokyo, Japan.	Process for producing acrylic synthetic fibers having irregulation form seation.
164853	11-3-1987	Mitsui Toutsu Chemicals 2.5 Kasumigaseki 3 chome Chiyoda-ku, Japan.	Improvements in process for the production of highly can phosphoric acid.
152102	16-1-1980	Nuphtachimic S.A. Tour Neptune, La Defense 1, 20 Place de Seine 92400 Courbevoie, France.	Process for the production of a copolymer of propylene & but-1-ene.
154738	29-7-1980	Do.	Gaseous phase process for the production of copolymers of propylene & but-1-ene.
156203	16-1-1980	Do.	Heat sealable films of thermoplastic materials.
155164	23-2-1981	Nippon Kokan Kabushik, 1-2, 1-chome, Marumouchi Chiyoda-ku, Tokyo, Japan.	Method for manufacturing of composite sinter of silicon, nitride/boron nitride.
157473	21-8-1982	Nissan Chemical Industries Ltd. 7-1 3-Chome, Kanda Nishikicho, Chiyoda-ku, Tokyo, Japan.	Process for the preparation of a catalyst suitable for use in producing polyethylene.
165281	01-1-1986	Do.	Process for preparing a pyrazole sulfonamide derivative.
165467	16-2-1987	Nissan Chemical Industries Ltd.	A process for preparing pyridazinone derivative.
158617	30-3-1983	Northern Engineering Industries Plo Nei House, Regent Centre, Newcastle Upon Tyne, England, NE3 3SB.	A method of regenerating particulate union & cation ionexchange materials.
165429	14-8-1986	Pka Pyrolyse Kraftant-agen of D-7080 Aalen West Germany.	A process & plant for the recovery of utilisable gas from garbage by means of pyrolysis.
161336	08-12-1983	Polysar Limited Sarnia, Ontario Canada.	A process for preparing a vulcanized polymer composition.
162664	08-2-1984	Povilliart Roger Victor, Avenue De La Reforme 32 Brussels 1080 Belgium.	Process & installation for production of concentrated solution of ammonium nitrate.
165362	25-2-1986	Rheem Australia Ltd. 26 Level, Westpac Plaza 60 Margaret ST, Sydney NSW 2800 Australia.	Layered fabric & method of forming same.
158107	31-3-1983	Richard Dexter Chapin 368 North Colrado Avenue Watertown, New York 13601, U.S.A.	An elongated fluid-distributing hose for use in a fluid distributing system & an apparatus & method for making the same.
162160	06-12-1983	Rijksuniversiteit Utrecht Kromme Nieuwe Gracht 29 3512 HD Utrecht The Netherlands.	A method for neutraling waste sulfuric acid by adding a silicates.

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156377	16-4-1981	Dr. Rollan Swanson C/o Chemnoll Enterprises Inc. 100 Wall Street, New York Ny. 10005, U.S.A.	Process for conversion of wood, peat or coal to hydrocarbon & other values.
158900	08-2-1983	The Secretary of State for Defence Whitehall, London SW1 A ZHB, England.	Process for the production of an aluminium base alloy.
160070	23-9-1983	The Secretary of State for Defence.	A process for the production of an aluminium base alloy.
161282	23-1-1984	The Secretary of State for Defence Whitehall, London SW1A 248, England.	Liquid crystal composition.
164984	12-5-1987	Seppo Peltonina Oy Pertila 01860 Finland.	A composter for compositing organic wastes.
163117	23-7-1984	Shin Etsu Chemical Co. Ltd. 6-1 Ohtemachi 2 chome Chiyoda ku Tokyo Japan.	A method for the preparation of a sustainedly vapor releasing composite body for drug uses.
157166	06-10-1978	Simon Hartley Ltd. Etruria Works, Stake-on Trend Stafford Shire, England.	Method for the biodegradable conversion of sewage or industrial effluent to render it less noxious.
152686	25-3-1981	SKW TROSTBERG AG Aktiengesellschaft Dr. Albert Frank Strasse 32 D-8223 Trustbey West Germany.	Process for the production of guanidine nitrate from a mixture of urea & ammonium nitrite & apparatus for its performance.
162616	14-5-1985	SKW Trastburg Aktiengesellschaft Dr. Albert Frank Strasse 32 D-8223 Trustberg West Germany.	Fine Granular desulfurising agent for iron melts & process for desulfurising Pig-iron melts.
164997	11-4-1986	SKW TROSTBERG AG Dr. Albert Frank Strasse 32, D-8223 Trostberg West Germany.	A process for preparing a composition for prolonging the dormancy of plants or plant parts.
164998	28-4-1986	SKW TROSTBERG AG Do.	Process for the removal of caffeine from tea.
160157	25-4-1984	SOCIETE ANONYME D. ETUDES 9 Rue Auguste Barser 75011, Paris, France.	Improvements in biomass support medium.
160395	01-5-1984	Sumitomo Electric Industries Ltd. 15 Kitchama, 5, Chome Higashi-Ku-Osaka Japan.	A process for producing an optical fiber.
166879	05-5-1989	Burunjana Roy 1-A/9, Kustia Estate, Calcutta-700 039-West Bengal India.	Method of preparing controlled release delivery matrix.
164532	09-5-1985	Toyota Jidosha Kabushiki Kaisha 1 Toyotacha, Toyota-Shi Aichi-ken, Japan.	A process of making composite material reinforced with alumina-silica fibers including mullite crystalline form.
157511	10-2-1982	Unilever Plc Unilever House Blackfriars London EC4, England.	Process for preparing a hydroxy-5 methyl-2, 3-dihydro-furanone-3.
162193	10-1-1984	Do.	Process for preparing nickel based hydrogenation catalysts.
163580	10-1-1984	Unilever Plc. Do.	Process for hydrogenation unsaturated organic compound.
146408	24-1-1978	Union Carbide Corp, 270 Park Avenue New York, State of New York 10017 U.S.A.	Improved hydroformylation process.
147429	24-1-1978	Union Carbide Corporation.	Improved hydroformylation process.
150614	13-12-1978	Union Carbide Corp. 270 Park Avenue, New York, State of New York-1001 U.S.A.	Process for producing particulate filler-containing resole molding compositions from aqueous dispersion.
152790	27-3-1980	Union Carbide Corp.	A process for preparing a hydroformylation medium and hydroformylation.
154537	24-10-1980	Union Carbide Corp.	Improvement in hydroformylation process using stable sodium catalyst.
158241	23-3-1983	Union Carbide Corp.	An improved process for continuous production of polymer in a fluidized bed reactor.
159791	17-6-1983	Union Carbide Corp.	A method for refining crude butyraldehyde.

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162111	27-6-1984	Union Carbide Corpn.	Process for eliminating surface melt fracture.
154055	24-10-1980	Unisearch Limited 221-227 Anzac Parade Kensington, New South Wales, Commonwealth of Australia.	A process or the production of construction materials.
162110	18-6-1984	Zaklady Azotowe In Felik 33-1010 Tornew U1 Lipowa 8, Poland.	A method for the oxidation of cyclohexane in which the crude product of oxidation of cyclohexane in the liquid phase with gases containing oxygen is separated by distilling.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Sec. 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class 1. No. 164126. Crompton Greaves Ltd., Indian Company of 1, Dr. V. S. Gandhi Marg, Bombay-400023, Maharashtra, India, "Pedestal Fan", February 24, 1992.

Class 1. No. 164128.—do—. "Ceiling Fan". February 24, 1992.

Class 1. No. 164160. Paul's Engineering Works Pvt. Ltd., Indian Company of P-7, Natabar Paul Road, Howrah-711105, W.B., India. "Chuck for Lathe Machine". March 17, 1992.

Class 1. No. 164171. Mohan Helmets, C-17, Radhey Sham Park Extension, Delhi-110051, India, Indian Partnership Firm. "Basket for two wheeler scooter". March 20, 1992.

Class 1. Nos. 164465 & 164466. Cosmic Traffic Systems Pvt. Ltd. of 5, Anjali Apartments, Ramirishna Mission Marg, 14B Road, Khar (West) Bombay-400052, Maharashtra, India, Indian Company. "Road Studs". June 19, 1992.

Class 3. No. 164125. Crompton Greaves Ltd., Indian Company of 1, Dr. V. B. Gandhi Marg, Bombay-400023, Maharashtra, India. "Table Fan". February 24, 1992.

Class 3. No. 164127.—do—. "Ceiling Fan". Feb. 24, 1992.

Class 3. No. 164426. Kuljit Singh Arora trading as Aroplast Company of 69/5A, Najargarh Road, New Delhi-110015, India. "Store Box for Scooters". June 2, 1992.

Class 3. No. 164427. Sudhir Aneja of Sympoi International, Room No. 203, 1st floor, A-1 (Orbit House), Rajouri Garden, New Delhi-110027, India. "Remote control protection device". June 2, 1992.

Class 3. Nos. 164509 & 164510. MRF Limited, Indian Co., 124, Greams Road, Madras-600006, T.N., India. "Tyre". July 3, 1992.

Class 13. No. 164223. Smt. Madhu, 27, Pusa Road, New Delhi-110005, India, Indian. "Tissue Box". April 2, 1992.

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Nos. 159109 to 159120—Class 3.

Nos. 159121 to 159128—Class 10.

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